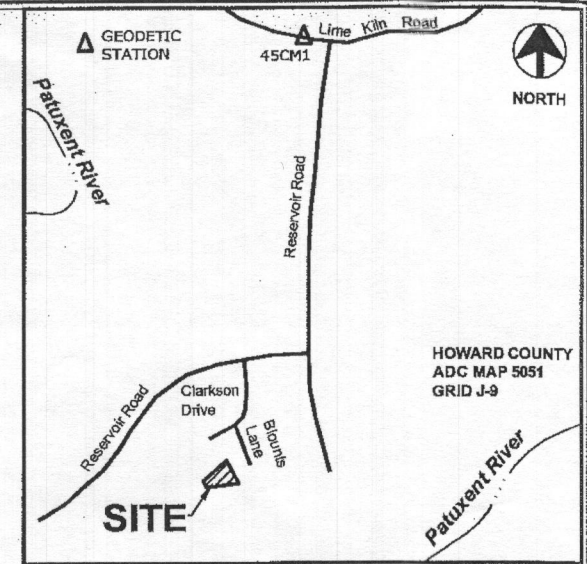


SCALE: 1" = 60'

- LEGEND:
- PROPOSED HOUSE
 - PROPERTY LINE
 - LIMIT OF DISTURBANCE
 - DRYWELL
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - WATER HOUSE CONNECTION
 - EX. WELL
 - SEPTIC OUTLINE
 - FOREST CONSERVATION EASEMENT BOUNDARY
 - STREAM BUFFER
 - NEW PAVEMENT
 - EXISTING OFF-SITE FOREST CONSERVATION EASEMENT
 - WELL EASEMENT
 - SEPTIC TANK
 - SEPTIC TRENCH
 - PERC SITE TEST
 - STOCK PILE AREA



VICINITY MAP
SCALE: 1" = 2,000'

THE WATER LINE SERVING 8522 BLOUNTS LANE (THE WALKER RESIDENCE) MUST PASS UNDER THE WATER LINE SERVING 8520 BLOUNTS LANE, AND MUST BE SLEEVED AT THE CROSSING OF THE TWO PIPES.

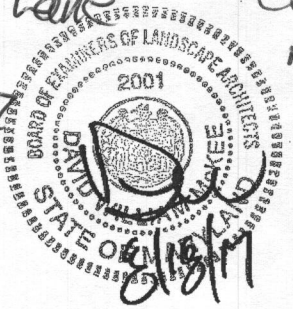
Approved Septic System Plan
Howard County Health Department
B17002751

8522 Blounts Lane
5 Bedroom SFD
Signature
9/13/2017 Date

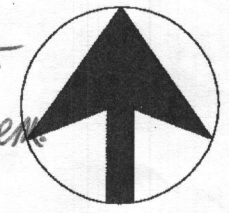
REVISED
Date: 8/18/17
Comments: B17002751
Rev. to show sediment control + on site sewage disposal system

SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY ON-SITE:
GOODE SURVEYS, LLC,
PO BOX 599
DAMASCUS, MD 20872
301-368-3700

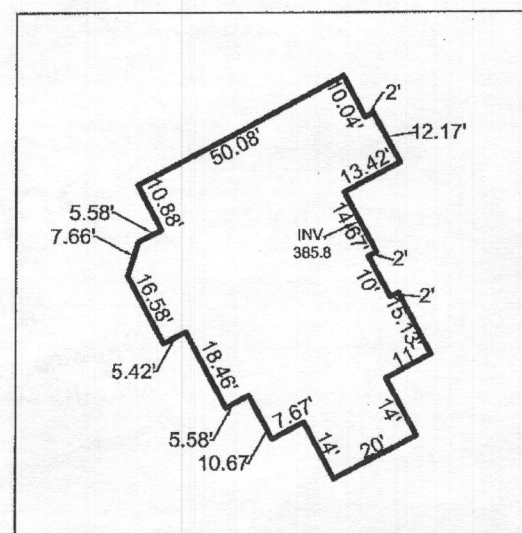
SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY OFF-SITE:
HOWARD COUNTY GIS



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 2001, EXPIRATION DATE 10/21/2018



Benning & Associates, Inc.
Land Planning Consultants
8933 Shady Grove Court
Gaithersburg, MD 20877
(301)948-0240

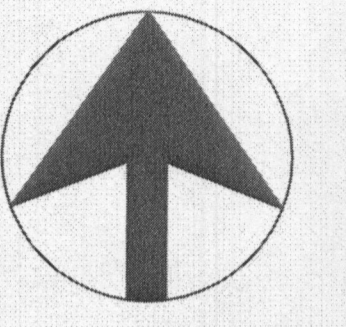


BUILDING DIMENSIONS
1" = 40'

PLOT PLAN
8522 BLOUNTS LANE (P053)
Election District 05
Tax Map 45
Howard County, Maryland
Date: 8/10/17

OWNER/APPLICANT:
WILLIAM WALKER, JR.
8207 NORTHLAKE COURT
LAUREL, MD 20707
301-928-3831

BUILDER:
CLASSIC HOMES OF MARYLAND
50 W. EDMONSTON DR
ROCKVILLE, MD 20850
301-251-2001

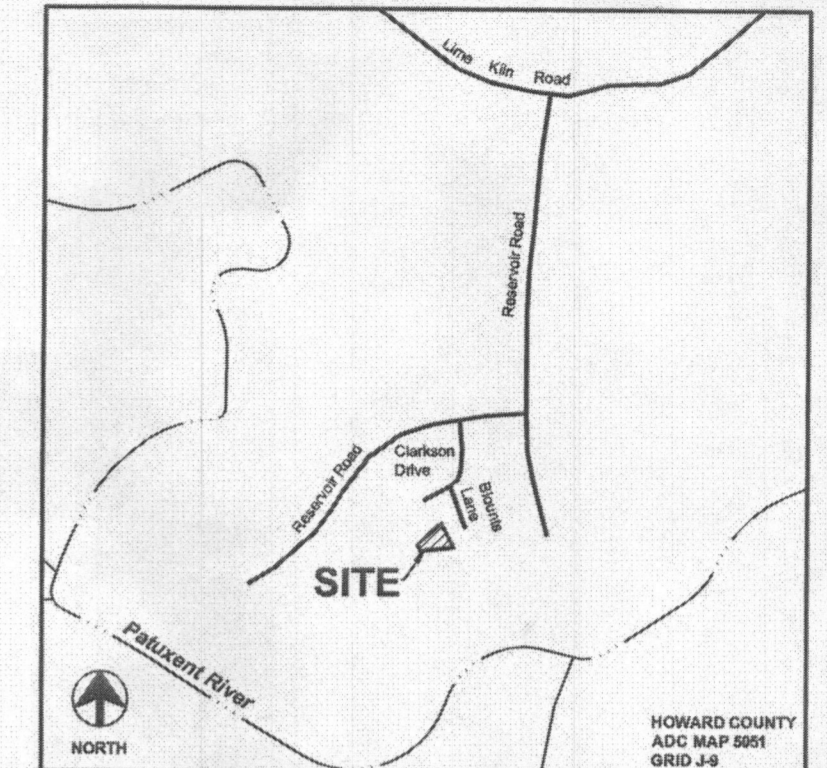


date: 06/26/17
 scale: 1" = 20'

Benning & Associates, Inc.
 Land Planning Consultants
 8933 Shady Grove Court
 Gaithersburg, MD 20877
 (301)944-0240



ENGINEERED SEDIMENT CONTROL PLAN
 Parcel 53
 8522 Blounts Lane
 Howard County, Maryland



VICINITY MAP
 SCALE: 1" = 2,000'

PREPARED FOR:
**WILLIAM WALKER, JR. &
 DANA WALKER**
 8207 NORTHLAKE COURT
 LAUREL, MD 20707
 301-928-3831

LEGEND:

PROPOSED HOUSE	[Symbol]
PROPERTY LINE	[Symbol]
LIMIT OF DISTURBANCE	[Symbol]
SUPER SILT FENCE	[Symbol]
DRYWELL	[Symbol]
EXISTING CONTOUR	[Symbol]
PROPOSED CONTOUR	[Symbol]
WATER HOUSE CONNECTION	[Symbol]
EX. WELL	[Symbol]
EXISTING TREE CANOPY LINE	[Symbol]
SEPTIC OUTLINE	[Symbol]
CONSERVATION EASEMENT	[Symbol]
STABILIZED CONSTRUCTION ENTRANCE	[Symbol]
STREAM BUFFER	[Symbol]
SPECIMEN TREE (30" DBH OR GREATER)	[Symbol]
SPECIMEN TREE TO BE REMOVED	[Symbol]
NEW PAVEMENT	[Symbol]
EXISTING OFF-SITE FOREST CONSERVATION EASEMENT	[Symbol]
WELL EASEMENT	[Symbol]
STOCKPILE	[Symbol]
SILT FENCE	[Symbol]

NOTE: TEMPORARY OR PERMANENT STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE CID INSPECTOR OR AT THE INTERVALS PROVIDED WITHIN THE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL WHICHEVER IS MORE STRINGENT.

NOTE: NO RUNNING WATER WAS OBSERVED WITHIN THE STREAM CHANNEL ON-SITE OR THE IMMEDIATE DOWNSTREAM PROPERTY DURING A SITE VISIT ON FEBRUARY 17, 2017.

Standard Stabilization Note

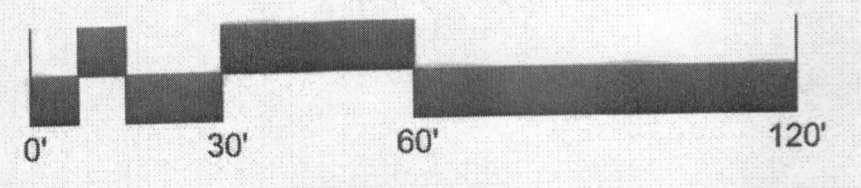
Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:

- Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1), and
- Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

SOIL CHART

SYMBOL	SOIL	SLOPE	K-FACTOR	HYDRIC
GgB	Glensig Loam	3 - 8%	0.20	No
MaC	Manor Loam	8 - 15%	0.24	No
GmC	Glensig Loam	8 - 15%	0.37	No

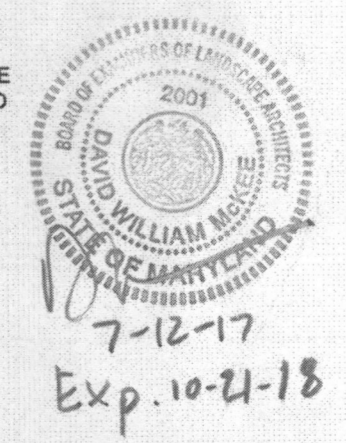
Scale: 1" = 30'



SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY ON-SITE:
 GOODE SURVEYS, LLC,
 PO BOX 599
 DAMASCUS, MD 20872
 301-388-3700

SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY OFF-SITE:
 HOWARD COUNTY GIS

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 2001
 EXPIRATION DATE 10/21/2018



GP-17-100
 ENGINEER'S CERTIFICATE
 I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.
 Signature of Engineer (print name below signature) David W. McKee Date 7-12-17
 MD R.L.A.

DEVELOPER'S CERTIFICATE
 I/we hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE.
 Signature of Developer (print name below signature) William Walker Jr. Date 7/12/17

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT
 Signature of District Director John R. Robertson Date 7/13/17
 Howard SCD Date

**HOWARD SOIL CONSERVATION DISTRICT
STANDARD SEDIMENT CONTROL NOTES**

1. A pre-construction meeting must occur with the Howard County Department of Public Works, Construction Inspection Division (CID), 410-313-1855 after the future LOD and protected areas are marked clearly in the field. A minimum of 48 hours notice to CID must be given at the following stages:
 - a. Prior to the start of earth disturbance
 - b. Upon completion of the installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading
 - c. Prior to the start of another phase of construction or opening of another grading unit
 - d. Prior to the removal or modification of sediment control practices

Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made. Other related state and federal permits shall be referenced, to ensure coordination and to avoid conflicts with this plan.

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 2011 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 is required within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1); and seven (7) calendar days as to all other disturbed areas on the project site except for those areas under active grading.

4. All disturbed areas must be stabilized within the time period specified above in accordance with the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, for topsoil (Sec. B-4-2), permanent seeding (Sec. B-4-5), temporary seeding (Sec. B-4-4) and mulching (Sec. B-4-3). Temporary stabilization with mulch alone can only be applied between the fall and spring seeding dates if the ground is frozen. Incremental stabilization (Sec. B-4-1) specifications shall be enforced in areas with >1% cut and/or for fill. Stockpiles (Sec. B-4-8) in excess of 20 ft. must be benched with stable outlet. All concentrated flow, steep slope, and highly erodible areas shall receive soil stabilization matting (Sec. B-4-6).

5. 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 CID.

6. Site Analysis:

Total Area of Site	1.35 Acres
Area Disturbed	1.00 Acres
Area to be roofed or paved	0.16 Acres
Area to be vegetatively stabilized	0.84 Acres
Total Cut	300 Cu. Yds.
Total Fill	880 Cu. Yds.

Offsite waste/borrow area location: To be determined

7. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.

8. Additional sediment control must be provided, if deemed necessary by the CID. The site and all controls shall be inspected by the contractor weekly, and the next day after each rain event. A written report by the contractor, made available upon request, is part of every inspection and should include:
 - Inspection date
 - Inspection type (routine, pre-storm event, during rain event)
 - Name and title of inspector
 - Weather information (current conditions as well as time and amount of last recorded precipitation)
 - Brief description of project's status (e.g., percent complete) and/or current activities
 - Evidence of sediment discharges
 - Identification of plan deficiencies
 - Identification of sediment controls that require maintenance
 - Identification of missing or improperly installed sediment controls
 - Compliance status regarding the sequence of construction and stabilization requirements
 - Photographs
 - Monitoring/logging
 - Maintenance and/or corrective action performed
 - Other inspection items as required by the General permit for Stormwater Associated with Construction Activities (NPDES, MDE).

9. 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 work day, whichever is shorter.
10. Any major changes or revisions to the plans or sequence of construction must be reviewed and approved by the HSCD prior to proceeding with construction. Minor revisions may be allowed by the CID per the list of HSCD-approved field changes.
11. Disturbance shall not occur outside the L.O.D. A project is to be sequenced so that grading activities begin on one grading unit (maximum acreage of 20 ac. per grading unit) at a time. Work may proceed to a subsequent grading unit when at least 50 percent of the disturbed area in the preceding grading unit has been stabilized and approved by the CID. Unless otherwise specified and approved by the HSCD, no more than 30 acres cumulatively may be disturbed at a given time.

12. Wash water from any equipment, vehicles, wheels, pavement, and other sources must be treated in a sediment basin or other approved wash structure.
13. Topsoil shall be stockpiled and preserved on-site for redistribution onto final grade.
14. All Silt Fence and Super Silt Fence shall be placed on-the-contour, and be imbricated at 25' minimum intervals, with lower ends curved uphill by 2' in elevation.

15. Stream channels must not be disturbed during the following restricted time periods (inclusive):
 - Use I and II March 1 - June 15
 - Use III and IIIP October 1 - April 30
 - Use IV March 1 - May 31
16. A copy of this plan, the 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and associated permits shall be on-site and available when the site is active.

SEQUENCE OF CONSTRUCTION

1. Prior to clearing trees, installing sediment control measures, or grading, a preconstruction meeting must be conducted on-site with the Construction Inspection Division (410) 313-1855 (48 hours notice), the Owners representative, and the site Engineer. This should be conducted in a single day convenient to all parties.
2. The limits of disturbance must be field marked prior to clearing of trees, installation of sediment control measures, construction, or other land disturbing activities. This can be completed in a single day unless unforeseen weather delay.
3. Clear and grade for installation of sediment control devices. This should be completed in one week unless unforeseen weather delay.
4. Once the sediment control devices are installed, the permittee must obtain written approval from the CID inspector proceeding with any additional clearing, grubbing or grading. Subject to CID inspector schedule, this should take no more than 2 days.
5. Construct driveway, new house, and drywells with grading of the site as needed within limit of disturbance. Project should be completed in 6 months unless unforeseen weather delays.
6. All disturbed areas must be topsoiled (see topsoiling specifications on plan) prior to final stabilization. Task should be completed within 1-2 days unless unforeseen weather delays.
7. Prior to the removal of any sediment control device permittee must obtain written approval from CID inspector.

B-4-4 STANDARDS AND SPECIFICATIONS FOR 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.

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.

- Criteria**
- A. Seed Mixtures**
1. General Use
 - 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 B.2. Enter selected mixture(s), application rates, and seeding dates in the Permanent Seeding 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 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 1/2 pounds per 1000 square feet (150 pounds per acre) at the time of seeding in addition to the soil amendments shown in the Permanent Seeding Summary.
 2. Turfgrass Mixtures
 - a. Areas where turfgrasses 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 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 Ryegrass: 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 6 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: 1 1/2 to 3 pounds per 1000 square feet.

3. Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #7, "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 Zones: 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 area to prepare a proper seedbed. Remove stones and debris over 1 1/2 inches in diameter. The resulting seedbed must be in such condition that future mowing of grasses will occur with no difficulty.

- e. If soil moisture is deficient, supply new seedlings 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 seedlings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.

B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREA

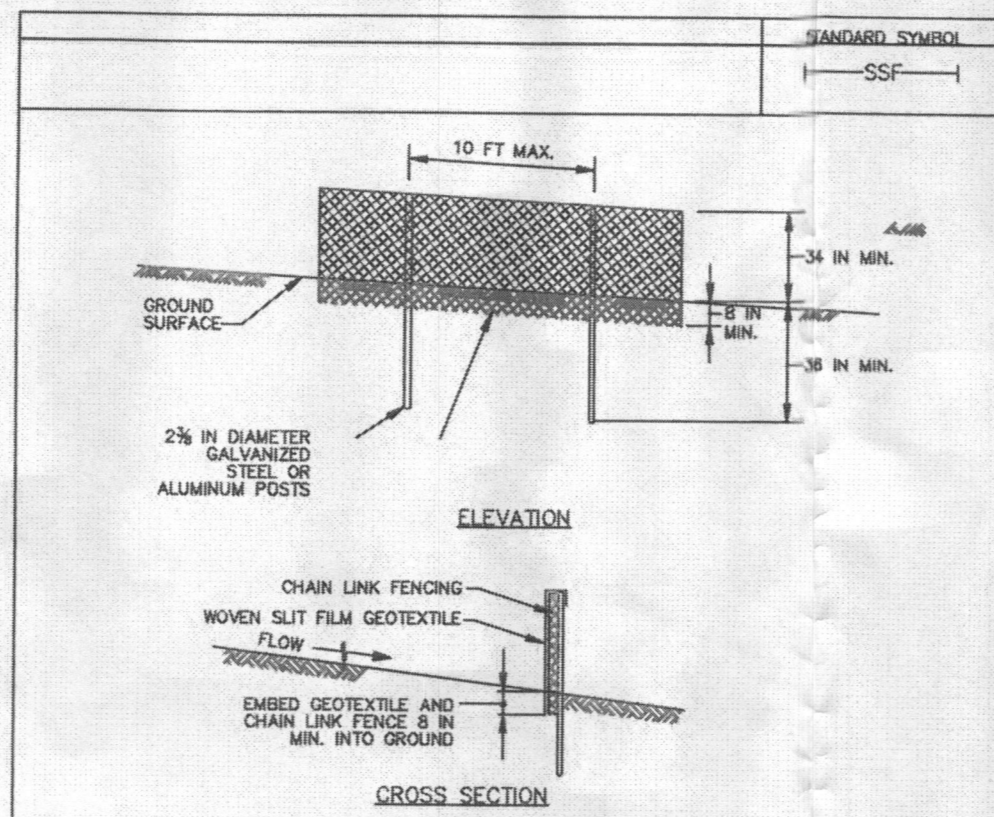
Definition - A mound or pile of soil protected by appropriately designed erosion and sediment control measures.
Purpose - To provide a designated location for the temporary storage of soil that controls the potential for erosion, sedimentation, and changes to drainage patterns.
Conditions Where Practice Applies - Stockpile areas are utilized when it is necessary to salvage and store soil for later use.

- Criteria**
1. The stockpile location and all related sediment control practices must be clearly indicated on the erosion and sediment control plan.
 2. The footprint of the stockpile must be sized to accommodate the anticipated volume of material and based on a side slope ratio no steeper than 2:1. Benching must be provided in accordance with Section B-3 Land Grading.
 3. Runoff from the stockpile area must drain to a suitable sediment control practice.
 4. Access the stockpile area from the upgrade side.
 5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary swale or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
 6. Where runoff concentrates along the toe of the stockpile fill, an appropriate erosion/sediment control practice must be used to intercept the discharge.
 7. Stockpiles must be stabilized in accordance with the 3/7 day stabilization requirement as well as Standard B-4-1 Incremental Stabilization and Standard B-4-4 Temporary Stabilization.
 8. If the stockpile is located on an impervious surface, a liner should be provided below the stockpile to facilitate cleanup. Stockpiles containing contaminated material must be covered with impermeable sheeting.

Maintenance

The stockpile area must continuously meet the requirements for Adequate Vegetative Establishment in accordance with Section B-4 Vegetative Stabilization. Side slopes must be maintained at no steeper than a 2:1 ratio. The stockpile area must be kept free of erosion. If the vertical height of a stockpile exceeds 20 feet for 2:1 slopes, 30 feet for 3:1 slopes, or 40 feet for 4:1 slopes, benching must be provided in accordance with Section B-3 Land Grading.

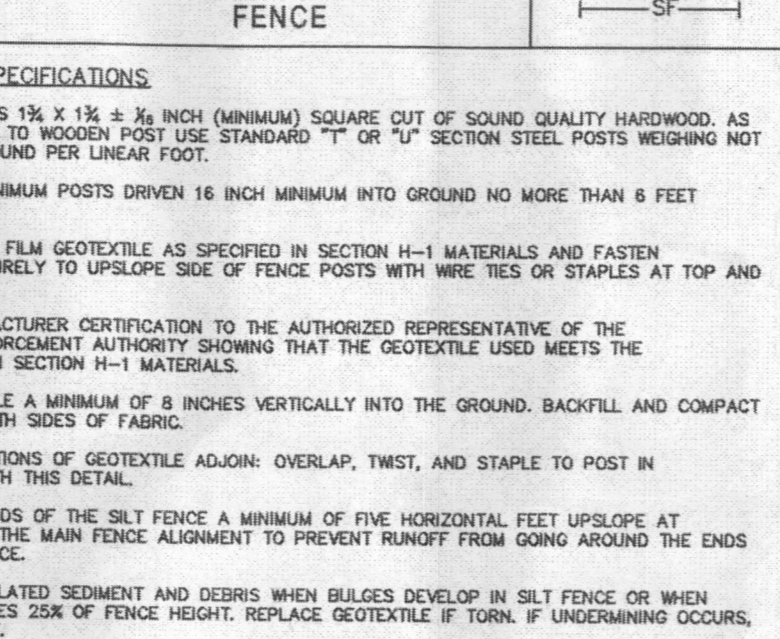
DETAIL E-3 SUPER SILT FENCE



- CONSTRUCTION SPECIFICATIONS**
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 60S INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
 2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES IN HEIGHT SECURELY TO THE FENCE POSTS WITH WIRE TIES OR HOE RINGS.
 3. FASTEN WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS SECURELY TO THE UPSLOPE SIDE OF CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID SECTION. ENDED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 6 INCHES INTO THE GROUND.
 4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED TO PREVENT SEEDING BY PASS.
 5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SUPER SILT FENCE.
 6. PROVIDE MANUFACTURER CERTIFICATION TO THE INSPECTOR/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
 7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE IN WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCE AND GEOTEXTILE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE



- CONSTRUCTION SPECIFICATIONS**
1. USE WOOD POSTS 1 1/2 x 1 1/2 x 1/2 (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAL FOOT.
 2. USE 3/8 INCH MINIMUM POSTS DRIVEN 18 INCH MINIMUM INTO THE GROUND MORE THAN 6 FEET APART.
 3. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
 4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTOR/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS.
 5. EMBED GEOTEXTILE A MINIMUM OF 6 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
 6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
 7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
 8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

Table B.1: Temporary Seeding for Site Stabilization

Plant Species	Seeding Rate ^{1/}		Seeding Depth ^{2/} (Inches)	Recommended Seeding Dates by Plant Hardiness Zone ^{3/}		
	lb/ac	lb/1000 ft ²		5b and 6a	6b	7a and 7b
Cool-Season Grasses						
Annual Ryegrass (<i>Lolium perenne</i> ssp. <i>multiflorum</i>)	40	1.0	0.5	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Barley (<i>Hordeum vulgare</i>)	96	2.2	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Oats (<i>Avena sativa</i>)	72	1.7	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Wheat (<i>Triticum aestivum</i>)	120	2.8	1.0	Mar 15 to May 31; Aug 1 to Sep 30	Mar 1 to May 15; Aug 1 to Oct 15	Feb 15 to Apr 30; Aug 15 to Nov 30
Cereal Rye (<i>Secale cereale</i>)	112	2.8	1.0	Mar 15 to May 31; Aug 1 to Oct 31	Mar 1 to May 15; Aug 1 to Nov 15	Feb 15 to Apr 30; Aug 15 to Dec 15
Warm-Season Grasses						
Foxtail Millet (<i>Setaria italica</i>)	30	0.7	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14
Pearl Millet (<i>Pennisetum glaucum</i>)	20	0.5	0.5	Jun 1 to Jul 31	May 16 to Jul 31	May 1 to Aug 14

- NOTES:**
- 1/ Seeding rates for the warm-season grasses are in pounds of Pure Live Seed (PLS). Actual planting rates shall be adjusted to reflect percent seed germination and purity, as tested. Adjustments are usually not needed for the cool-season grasses.
 - 2/ Seeding rates listed above are for temporary seedings, when planted alone. When planted as a nurse crop with permanent seed mixes, use 1/3 of the seeding rate listed above for barley, oats, and wheat. For smaller-seeded grasses (annual ryegrass, pearl millet, foxtail millet), do not exceed more than 5% (by weight) of the overall permanent seeding mix. Cereal rye generally should not be used as a nurse crop, unless planting will occur in very late fall beyond the seeding dates for other temporary seedings. Cereal rye has allelopathic properties that inhibit the germination and growth of other plants. If it must be used as a nurse crop, seed at 1/5 of the rate listed above.
 - 3/ Oats are the recommended nurse crop for warm-season grasses.
- For sandy soils, plant seeds at twice the depth listed above.
The planting dates listed are averages for each Zone and may require adjustment to reflect local conditions, especially near the boundaries of the zone.

Permanent Seeding Summary

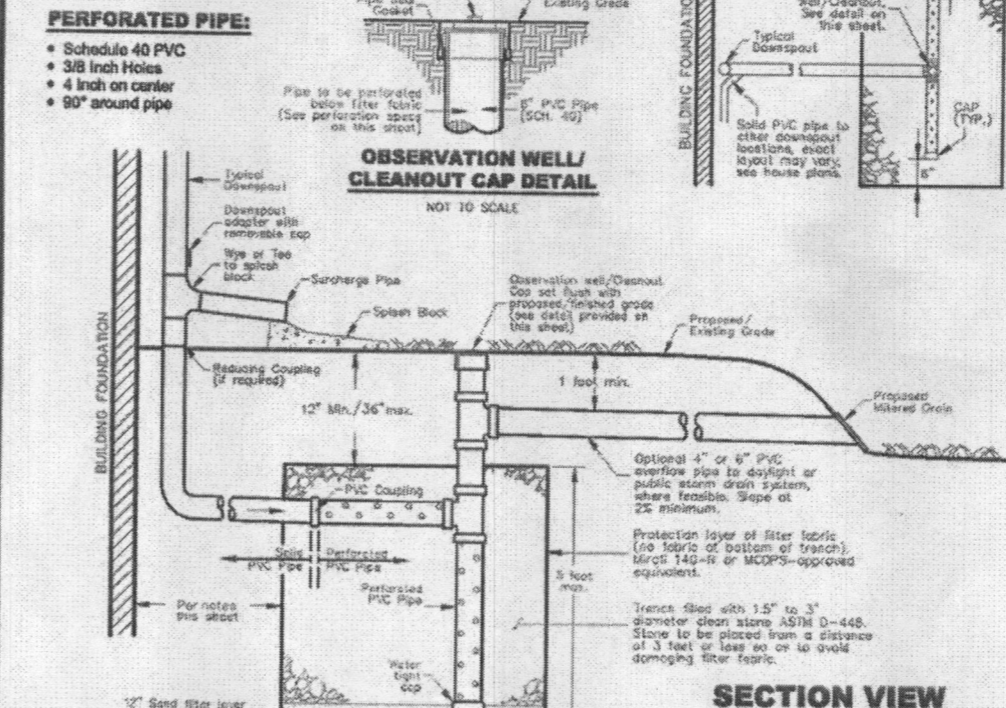
No.	Species	Application Rate (lb/ac)	Seeding Dates	Seeding Depths	Fertilizer Rate (10-20-20)			Lime Rate
					N	P ₂ O ₅	K ₂ O	
Hardiness Zone (from Figure B.3): 6a		Seed Mixture (from Table B.3): 8						
8	Tall Fescue	100 lbs per acre	Mar 1 - May 15 Aug 15 - Oct 15	1/2 - 1/2 in 1/2 - 1/2 in	45 pounds per acre (1.0 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	90 lb/ac (2 lb/1000 sf)	2 tons/ac (90 lb/1000 sf)

SIZING FOR DRYWELLS:

DRYWELL #1 Contributing Area 1,003 sf Size: 10.1' x 10.1' x 5' depth* *3' of cover for DW #1	DRYWELL #2 Contributing Area 772 sf Size: 8.9' x 8.9' x 5' depth* *1' of cover for DW #2	DRYWELL #3 Contributing Area 601 sf Size: 7.8' x 7.9' x 5' depth* *1' of cover for DW #3	DRYWELL #4 Contributing Area 1,117 sf Size: 10' x 11.5' x 5' depth* *2' of cover for DW #4
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NOTES:

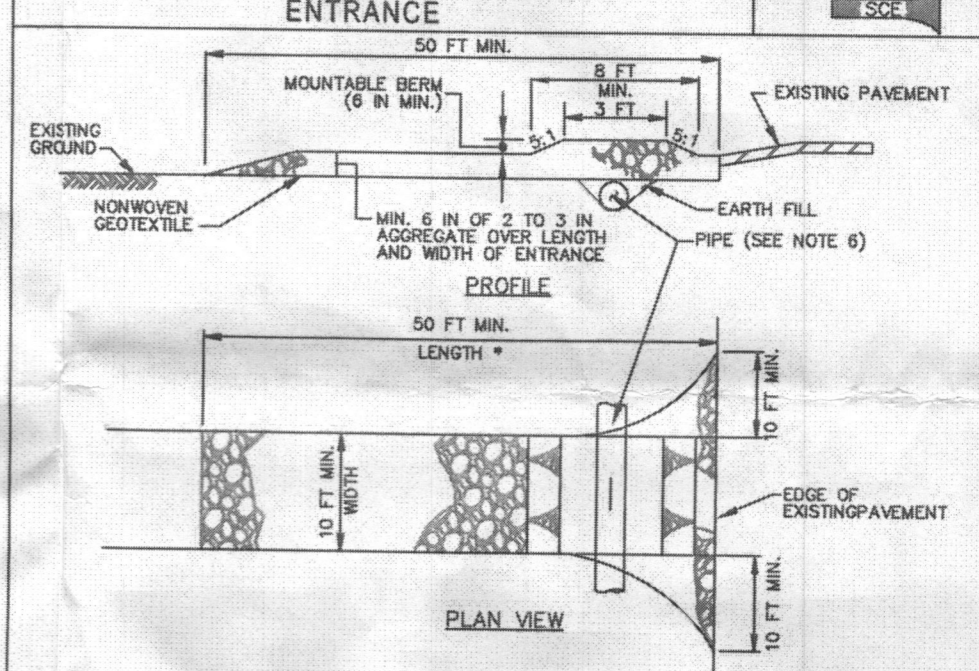
- Manufactured sand is not acceptable in drywells.
- All perforated pipe must be Schedule 40 PVC or higher quality, 4 inch diameter minimum.
- Drywells must be:
 - 2 ft min. from property lines
 - 20 ft min. from fully enclosed buildings
 - 20 ft min. from building foundations
 - 20 ft min. from septic tanks or lines
 - 20 ft min. from adjacent well locations
 - 10 ft min. from primary sewage treatment tanks
 - so as to facilitate any basement sewage
- All dimensions are to be specified by design engineer.
- Drywell locations may be field-adjusted based upon site conditions, with Inspector's approval.
- Drywells may not be combined or eliminated without MDCPE approval.



MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES WATER RESOURCES SECTION	DATE: August 2012
DRYWELL FOR ROOF DRAIN	SCALE: NONE

Source: Montgomery County, MD, Department of Permitting - Water Resources Section

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE



- CONSTRUCTION SPECIFICATIONS**
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (50 FEET FOR SINGLE RESIDENCE LOT), USE MINIMUM WIDTH OF 10 FEET. FLARE SCE TO FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
 2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BORN WITH 6 IN. SLURS AND A MINIMUM OF 12 INCHES ABOVE THE PIPE. PROTECT PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BORN IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.
 3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
 4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.
 5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE. MOUNTABLE BORN AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ROADWAY BY VEHICLES. SCRAPING AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTION TO AN APPROVED SEDIMENT CONTROL PRACTICE.

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

ENGINEER'S CERTIFICATE

"I hereby certify that this plan for has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, and that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

Date: 7-12-17
Signature: David W. McKee
MD R.L.A.

DEVELOPER'S CERTIFICATE

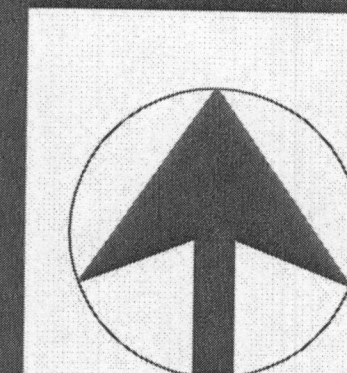
"I hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in the construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control of erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

Date: 7/13/17
Signature: William Walker Jr.
MD R.L.A.

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

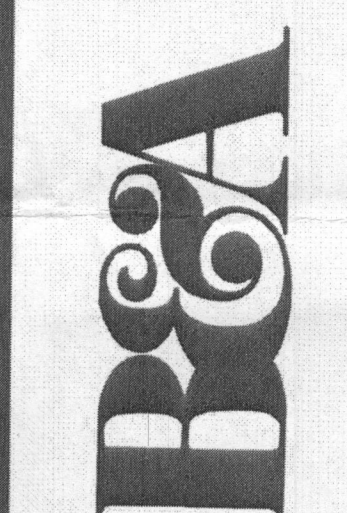
Date: 7/13/17
Signature: John K. Robertson
Howard SCD

Sheet 2 of 2
Revisions
Rev. 07/13/17



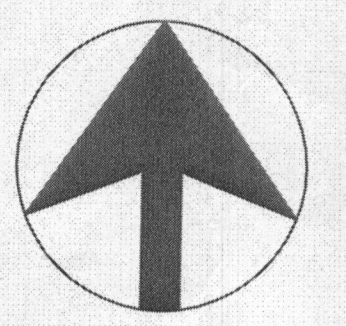
date: 06/26/17
scale:

Benning & Associates, Inc.
Land Planning Consultants
8931 Shady Grove Court
Gaithersburg, MD 20877
(301)948-0240



ENGINEERED SEDIMENT CONTROL PLAN
Parcel 53
8522 Blounts Lane
Howard County, Maryland

Rev. 07/13/17

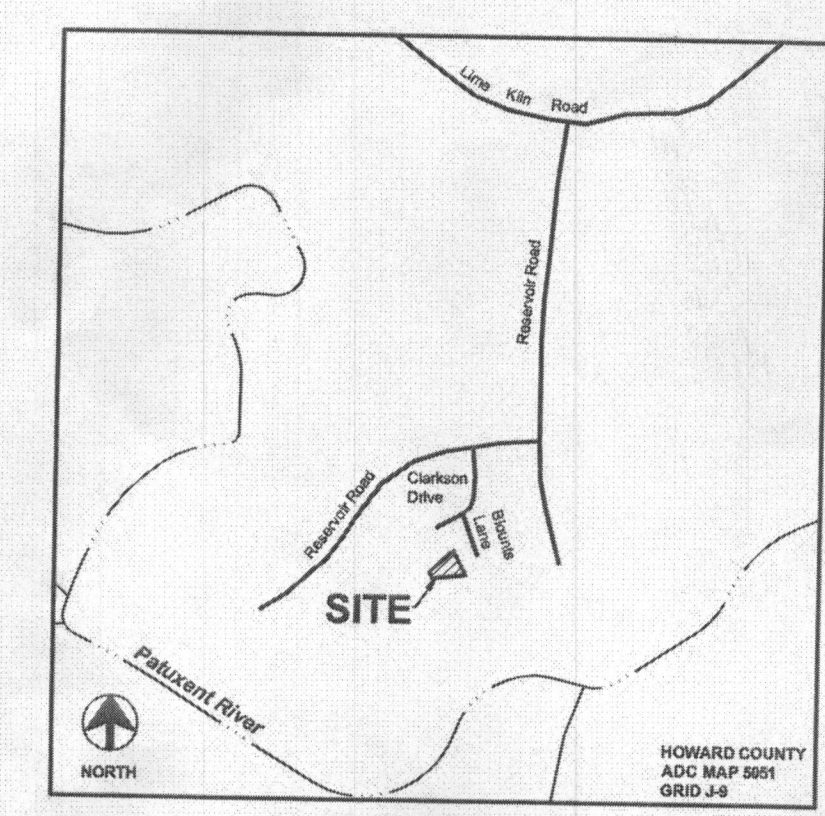


date: 06/26/17
scale: 1" = 20'

Benning & Associates, Inc.
Land Planning Consultants
8933 Stady Grove Court
Gaithersburg, MD 20877
(301)948-0240



ENGINEERED SEDIMENT CONTROL PLAN
Parcel 53
8522 Blounts Lane
Howard County, Maryland



VICINITY MAP
SCALE: 1" = 2,000'

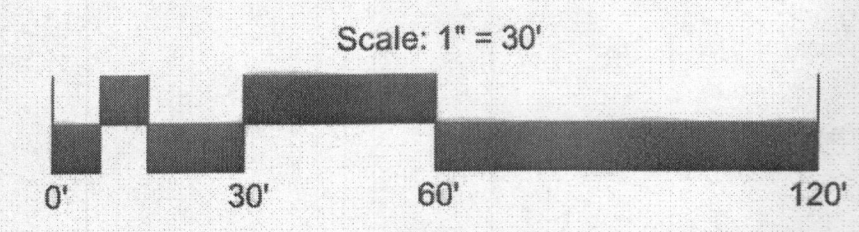
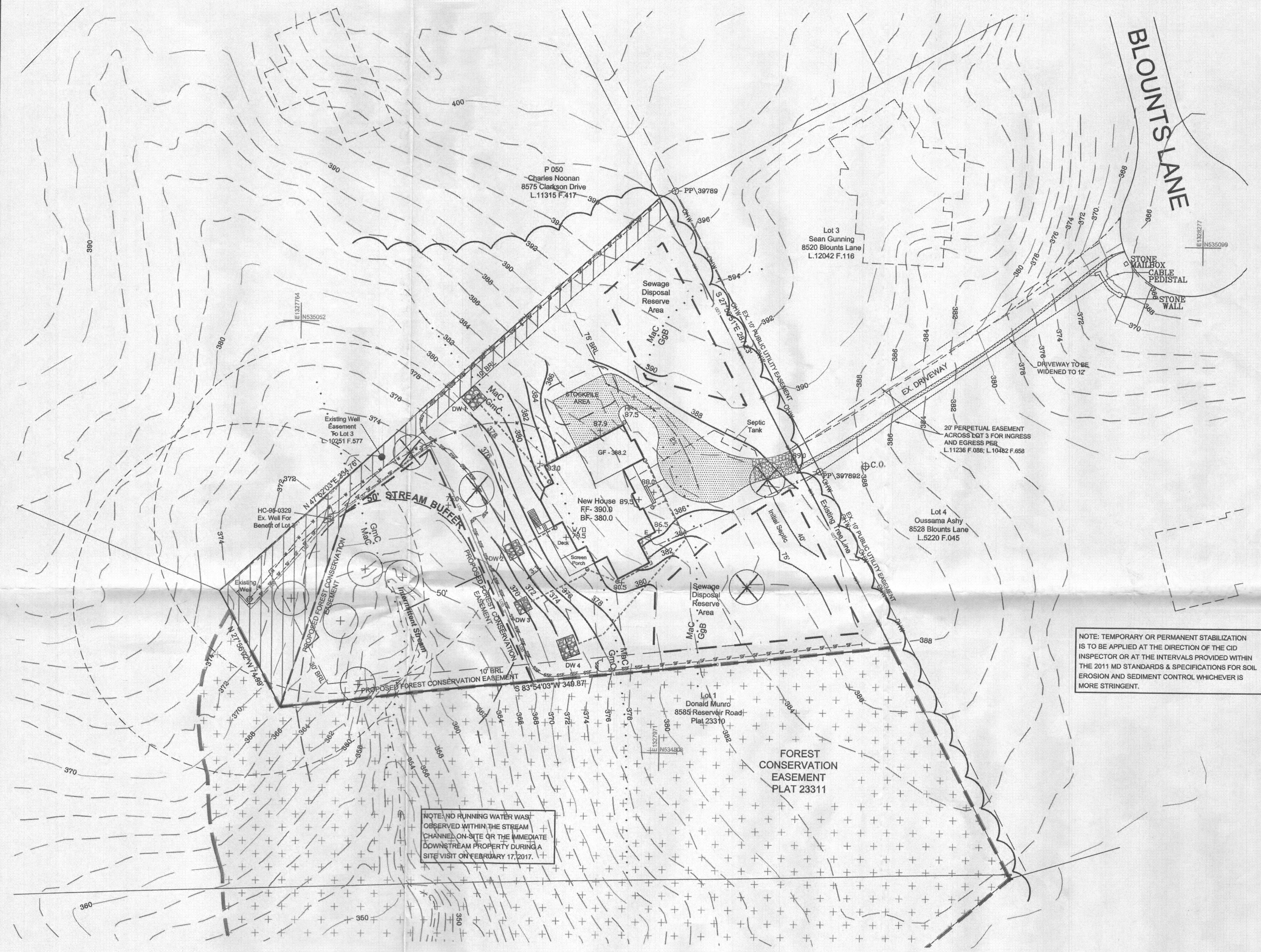
PREPARED FOR:
**WILLIAM WALKER, JR. &
DANA WALKER**
8207 NORTHLAKE COURT
LAUREL, MD 20707
301-928-3831

LEGEND:

PROPOSED HOUSE	
PROPERTY LINE	
LIMIT OF DISTURBANCE	
SUPER SILT FENCE	
DRYWELL	
EXISTING CONTOUR	
PROPOSED CONTOUR	
WATER HOUSE CONNECTION	
EX. WELL	
EXISTING TREE CANOPY LINE	
SEPTIC OUTLINE	
CONSERVATION EASEMENT	
STABILIZED CONSTRUCTION ENTRANCE	
STREAM BUFFER	
SPECIMEN TREE (30' DBH OR GREATER)	
SPECIMEN TREE TO BE REMOVED	
NEW PAVEMENT	
EXISTING OFF-SITE FOREST CONSERVATION EASEMENT	
WELL EASEMENT	
STOCKPILE	
SILT FENCE	

NOTE: TEMPORARY OR PERMANENT STABILIZATION IS TO BE APPLIED AT THE DIRECTION OF THE CID INSPECTOR OR AT THE INTERVALS PROVIDED WITHIN THE 2011 MD STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL WHICHEVER IS MORE STRINGENT.

NOTE: NO RUNNING WATER WAS OBSERVED WITHIN THE STREAM CHANNEL ON-SITE OR THE IMMEDIATE DOWNSTREAM PROPERTY DURING A SITE VISIT ON FEBRUARY 17, 2017.



SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY ON-SITE:
GOODE SURVEYS, LLC,
PO BOX 599
DAMASCUS, MD 20872
301-368-3700

SOURCE OF TWO-FOOT CONTOUR INTERVAL TOPOGRAPHY OFF-SITE:
HOWARD COUNTY GIS

SOIL CHART				
SYMBOL	SOIL	SLOPE	K-FACTOR	HYDRIC
GgB	Glennig Loam	3 - 8%	0.20	No
MaC	Manor Loam	8 - 15%	0.24	No
GmC	Glennig Loam	8 - 15%	0.37	No

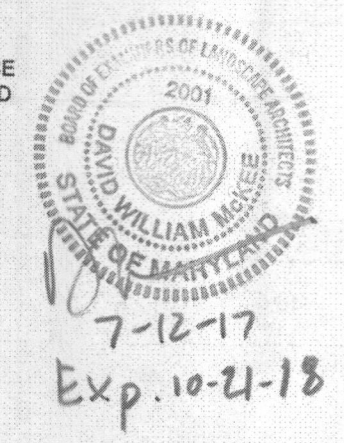
Standard Stabilization Note

Following initial soil disturbance or re-disturbance, permanent or temporary stabilization must be completed within:

a.) Three (3) calendar days as to the surface of all perimeter dikes, swales, ditches, perimeter slopes, and all slopes steeper than 3 horizontal to 1 vertical (3:1), and

b.) Seven (7) calendar days as to all other disturbed or graded areas on the project site not under active grading.

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 2001, EXPIRATION DATE 10/21/2018.



GP-17-100

ENGINEER'S CERTIFICATE

"I hereby certify that this plan has been designed in accordance with current Maryland erosion and sediment control laws, regulations, and standards, that it represents a practical and workable plan based on my personal knowledge of the site, and that it was prepared in accordance with the requirements of the Howard Soil Conservation District."

David W. McKee
Signature of Engineer (print name below signature)

7-12-17
Date
2001
MD R.L.A.

DEVELOPER'S CERTIFICATE

"I/We hereby certify that any clearing, grading, construction, or development will be done pursuant to this approved erosion and sediment control plan, including inspecting and maintaining controls, and that the responsible personnel involved in this construction project will have a Certificate of Training at a Maryland Department of the Environment (MDE) approved training program for the control on erosion and sediment prior to beginning the project. I certify right-of-entry for periodic on-site evaluation by Howard County, the Howard Soil Conservation District and/or MDE."

William Walker Jr.
Signature of Developer (print name below signature)

7/12/17
Date

This development plan is approved for soil erosion and sediment control by the HOWARD SOIL CONSERVATION DISTRICT

John R. Robertson
Signature of District Director

7/12/17
Date

Howard SCD

