



# Building Permit Application

Howard County Maryland  
Department of Inspections, Licenses and Permits  
3430 Court House Drive  
Permits: 410-313-2455  
www.howardcountymd.gov

Date Received: 11-12-14

Permit No.: B14004109

Building Address: 11831 Linden Chapel Road  
 City: Chesapeake State: MD Zip Code: 21029  
 Suite/Apt. #: 0 SDP/WP/BA #: S.P. 15.002  
 Census Tract: 605.101 Subdivision: Chapel Woods  
 Section: - Area: - Lot: 10  
 Tax Map: 29 Parcel: 354 Grid: 14  
 Zoning: RC-DEO Map Coordinates: 4131-C3 Lot Size: 1315785

Property Owner's Name: Shawn & Nancy Peck  
 Address: 11831 Linden Chapel Road  
 City: Chesapeake State: MD Zip Code: 21029  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

Applicant's Name & Mailing Address, (If other than stated herein)  
 Applicant's Name: Raw Tash  
 Address: P.O. Box 999  
 City: Columbia State: MD Zip Code: 21044  
 Phone: 443-324-4725 Fax: 443-917-2560  
 Email: RTash@ColumbiaBuildings.com

Contractor Company: Greenfield Family Homes  
 Contact Person: Raw Tash  
 Address: 6420 Autumn Sky Way  
 City: Columbia State: MD Zip Code: 21044  
 License No.: 6301  
 Phone: 443-324-4725 Fax: 443-917-2560  
 Email: RTash@ColumbiaBuildings.com

Engineer/Architect Company: D.W. Taylor & Assoc.  
 Responsible Design Prof.: Dw Taylor  
 Address: 5029 Dorsey Hall Drive  
 City: Elkridge City State: MD Zip Code: 21042  
 Phone: 410-964-1181 Fax: 410-977-2924  
 Email: Info@Dwtaylor.com

Existing Use: Open space  
 Proposed Use: Construct Garage  
 Estimated Construction Cost: \$75,000  
 Description of Work: Construct 3-car Detached Garage with Storage Room Above  
 Occupant or Tenant: \_\_\_\_\_  
 Was tenant space previously occupied?  Yes  No  
 Contact Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

| Commercial Building Characteristics                                     | Residential Building Characteristics                                       |       |
|---|--|-------|
| Height: _____   | <input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse |       |
| No. of stories: _____   | Depth  | Width |
| Gross area, sq. ft./floor: _____  | 1 <sup>st</sup> floor: <u>32' x 78'</u>                                    |       |
|   | 2 <sup>nd</sup> floor: <u>16' x 48'</u>                                    |       |
| Area of construction (sq. ft.): _____                                   | Basement: _____  |       |
|   | <input type="checkbox"/> Finished Basement                                 |       |
| Use group: _____  | <input type="checkbox"/> Unfinished Basement                               |       |
|   | <input type="checkbox"/> Crawl Space                                       |       |
| <b>Construction type:</b>   | <input checked="" type="checkbox"/> Slab on Grade                          |       |
| <input type="checkbox"/> Reinforced Concrete                            | No. of Bedrooms: <u>0</u>  |       |
| <input type="checkbox"/> Structural Steel                               | <b>Multi-family Dwelling</b>   |       |
| <input type="checkbox"/> Masonry  | No. of efficiency units: _____   |       |
| <input checked="" type="checkbox"/> Wood Frame                          | No. of 1 BR units: _____   |       |
| <input type="checkbox"/> State Certified Modular                        | No. of 2 BR units: _____   |       |
|   | No. of 3 BR units: _____   |       |
|   | Other Structure: _____   |       |
|   | Dimensions: _____  |       |
| <input checked="" type="checkbox"/> <b>Roadside Tree Project Permit</b> | Footings: _____  |       |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No     | Roof: _____  |       |
| <b>Roadside Tree Project Permit #</b>                                   | <input type="checkbox"/> State Certified Modular                           |       |
| <u>N.A.</u>   | <input type="checkbox"/> Manufactured Home                                 |       |

| Utilities   |  |
|---|--|
| <b>Water Supply</b>   |  |
| <input type="checkbox"/> Public   |  |
| <input checked="" type="checkbox"/> Private                               |  |
| <b>Sewage Disposal</b> <u>N/A</u>   |  |
| <input type="checkbox"/> Public   |  |
| <input checked="" type="checkbox"/> Private                               |  |
| Electric: <input type="checkbox"/> Yes <input type="checkbox"/> No        |  |
| Gas: <input type="checkbox"/> Yes <input type="checkbox"/> No             |  |
| <b>Heating System</b> <u>N/A</u>  |  |
| <input type="checkbox"/> Electric <input type="checkbox"/> Oil            |  |
| <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas |  |
| <input type="checkbox"/> Other: _____                                     |  |
| <b>Sprinkler System:</b> <u>N/A</u>                                       |  |
| <input type="checkbox"/> Yes <input type="checkbox"/> No                  |  |
| <b>Grading Permit Number:</b> <u>614000375</u>                            |  |
| <b>Building Shell Permit Number:</b> _____                                |  |

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: \_\_\_\_\_  
 Email Address: RTash@ColumbiaBuildings.com  
 Title/Company: Agent / Greenfield Family Homes

Print Name: Raw Tash  
 Date: 11-12-14

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY  
 \*\*PLEASE WRITE NEATLY & LEGIBLY\*\*  
 -FOR OFFICE USE ONLY-

| AGENCY             | DATE            | SIGNATURE OF APPROVAL |
|--------------------|-----------------|-----------------------|
| State Highways     |                 |                       |
| Building Officials |                 |                       |
| PSZA (Zoning)      |                 |                       |
| PSZA (Engineering) |                 |                       |
| Health             | <u>12/18/14</u> | <u>Dona Bernard</u>   |

Is Sediment Control approval required for issuance?  Yes  No  
 CONTINGENCY CONSTRUCTION START

| DPZ SETBACK INFORMATION   |
|---|
| Front: _____  |
| Rear: _____   |
| Side: _____   |
| Side St.: _____   |
| All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No    |
| Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No           |
| Lot Coverage for New Town Zone: _____   |
| SDP/Red-line approval date: _____   |

|                |                |
|----------------|----------------|
| Filing Fee     | \$ <u>100</u>  |
| Permit Fee     | \$             |
| Tech Fee       | \$             |
| Excise Tax     | \$             |
| PSFS           | \$             |
| Guaranty Fund  | \$ <u>50</u>   |
| Add'l per Fee  | \$             |
| Total Fees     | \$             |
| Sub-Total Paid | \$             |
| Balance Due    | \$             |
| Check          | # <u>41081</u> |



**SOIL PREPARATION, TOPSOILING AND SOIL AMENDMENTS (B-4-2)**

**A. Soil Preparation**

**1. Temporary Stabilization**

- a. Seeded 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 loosening, the soil is to be rolled or disced smooth. If the soil is to be seeded, it must be rolled or disced smooth. Slopes 3:1 or flatter are to be tracked with ridges running parallel to the contour of the slope.
- b. Apply fertilizer and lime as prescribed on the plans.
- c. Incorporate lime and fertilizer into the top 3 to 5 inches of soil by disking or other suitable means.
2. Permanent Stabilization
  - a. A soil test is required for every earth disturbance of 5 acres or more. The minimum soil conditions required for permanent vegetative establishment are:
    - i. Soil pH between 6.0 and 7.0.
    - ii. Soluble salts less than 500 parts per million (ppm).
    - 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 loesslike soils will be placed, then a sandy soil (less than 30 percent silt plus clay) 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.
  - b. Application of amendments or topsoil is required if on-site soils do not meet the above conditions.
  - c. Graded areas must be maintained in a true and even grade as specified on the approved plan, then scarified or otherwise loosened to a depth of 3 to 5 inches.
  - d. Apply soil amendments as specified on the approved plan or as indicated by the results of a soil test.
  - 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 seed 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. Seeded loosening may be unnecessary on newly disturbed areas.

**B. Topsoiling**

1. Topsoil is placed over prepared subsoil prior to establishment of permanent vegetation. The purpose is to provide a suitable medium for vegetation growth. Soils of concern have low moisture content, low nutrient levels, low pH, metallic toxic to plants, and/or unacceptable soil gradation.
2. Topsoil salvaged from an existing site may be used provided it meets the standards 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 metallic 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.
5. Topsoil Specifications: Soil to be used as topsoil must meet the following criteria:
  - a. Topsoil must be a loam, sandy loam, clay loam, silt loam, silty 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, rocks, trash, or other materials larger than 1 1/2 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 10 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 other ponds.
  - 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 seeded preparation.

**C. 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 analysis taken for engineering purposes may also be used for chemical analysis.
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 weight 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 #200 mesh sieve.
4. Lime and fertilizer are to be evenly distributed and incorporated into the top 3 to 5 inches of soil by disking or other suitable means.
5. Where the subsoil is either highly acidic or composed of heavy clays, spread ground limestone at the rate of 4 to 5 tons/acre (200-400 square feet) prior to the placement of topsoil.

**BUILDER/DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL 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 THE PROJECT. I ALSO AUTHORIZE PERSONNEL-ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature of Developer: *[Signature]* Date: 7/10/14

**ENGINEER'S CERTIFICATE**

"I/WE 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 HOWARD SOIL CONSERVATION DISTRICT."

Signature of Engineer: *[Signature]* Date: 7/18/14



THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. APPROVED: *[Signature]* DATE: 7/18/14

**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.
- A. 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 must have been tested within the 6 months immediately preceding the date of application on the contract. Field inoculation is permitted. 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. Inoculation: 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. Soil 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 phytotoxic materials.
  2. Application
    - a. D.B. Seeding: This includes use of conventional drop or broadcast spreaders.
    - b. 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.
    - c. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction. Roll the seeded area with weighted roller to provide good seed contact.
    - d. Drill or Cultivator Seeding: Mechanized seeding and apply seed covered with soil.
    - e. Outdrapping seeders are required to bury the seed in such a fashion as to provide at least 1/4 inch of soil covering. Seeded must be firm after planting.
    - f. Apply seed in two directions, perpendicular to each other. Apply half the seeding rate in each direction.
    - g. Hydroseeding: Apply seed uniformly with hydroseeder (slurry includes seed and fertilizer).
    - h. If fertilizer is being applied at application rates should not exceed the following: nitrogen, 100 pounds per acre total of soluble nitrogen; P 2 O 5 (phosphorus), 200 pounds per acre; K 2 O (potassium), 200 pounds per acre.
    - i. 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.
    - ii. Mix seed and fertilizer on site and seed immediately and without interruption.
    - iii. When hydroseeding do not incorporate seed into the soil.

**B. Mulching**

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 weeds as specified in the Maryland Seed Law and not musty, moldy, coated, decayed, or excessively dirty. Note: Use only straw straw much in areas where a species of grass is desired.
  - b. Wood Cellulose Fiber (WCFM) consisting of specially prepared wood cellulose processed into a uniform fibrous physical state.
  - c. 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.
  - d. WCFM, including dye, must contain no germination or growth inhibiting factors.
  - e. WCFM materials are to be mixed 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 batter-like ground cover, on application, having moisture absorption and retention properties that will cover and hold grass seed in contact with soil without inhibiting the growth of the grass seedlings.
  - f. WCFM material must not contain elements or compounds of concentration levels that will be phytotoxic.
  - g. 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, acid content of 1.5 percent maximum and water holding capacity of 90 percent maximum.
2. Application
  - a. Apply mulch to all seeded areas immediately after seeding.
  - b. When straw mulch is used, spread 1 cubic foot of straw 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 on mulch must be applied to 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.
3. 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 in preference), depending upon the size of the area and erosion hazard:
    - i. A mulch anchoring tool is a tractor driven 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 (Agra-Tack), DCA-70, Petro-Tack, Terra Tack, 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 more such as on valleys and on crests of berms. Use of organic binders is strictly prohibited.
    - iv. Lightweight plastic netting may be stapled over the mulch according to manufacturer recommendations. Netting is usually available in rolls 4-15 feet wide and 300 to 3,000 feet long.

**TEMPORARY SEEDING NOTES (B-4-4)**

**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 Hardness Zone (from Figure B.3), and enter them in the Temporary Seeding Summary below 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.

| Hardness Zone (from Figure B.3): | 6b                       | Fertilizer Rate (10-20-20) | Lime Rate     |
|----------------------------------|--------------------------|----------------------------|---------------|
| Seed Mixture (from Table B.1):   |                          |                            |               |
| Species                          | Application Rate (lb/ac) | Seeding Dates              | Seeding Depth |
| BARLEY                           | 96                       | 3/1 - 5/15,                | 1"            |
|                                  |                          | 8/15 - 10/15               | 1"            |
| OATS                             | 72                       |                            |               |
| RYE                              | 112                      |                            | 1"            |

**PERMANENT SEEDING NOTES (B-4-5)**

- 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 Hardness 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 seeding rates recommended by the soil testing agency. d. For areas receiving low maintenance, apply seed from fertilizer (16-0-0) 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 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. Recommended 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: 1 1/2 to 3 pounds per 1000 square feet.

**Notes:**  
Select turfgrass varieties from those listed in the most current University of Maryland Publication, Agronomy Memo #77, "Turfgrass Culture 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 (Hardness Zones: 5b, 6a) Central MD: March 15 to May 15, August 15 to October 15 (Hardness Zones: 6b) Southern MD, Eastern Shore: March 1 to May 15, August 15 to October 15 (Hardness 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 1 1/2 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 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 seedings are made late in the planting season, in abnormally dry or hot seasons, or on adverse sites.**

| Hardness Zone (from Figure B.3): | 6b                        | Fertilizer Rate (10-20-20) | Lime Rate                  |
|----------------------------------|---------------------------|----------------------------|----------------------------|
| Seed Mixture (from Table B.3):   |                           |                            |                            |
| No. Species                      | Application Rate (lb/ac)  | Seeding Dates              | Seeding Depth              |
| 1                                | 100                       | Mar. 1-May 15              | 1 1/4-1/2 in.              |
| 2                                | 100                       | Aug. 15-Oct. 15            | 1 1/4-1/2 in.              |
| N                                | 45 lb./ac (2 lb./1000 sf) |                            |                            |
| P <sub>2</sub> O <sub>5</sub>    | 90 lb./ac (2 lb./1000 sf) |                            |                            |
| K <sub>2</sub> O                 | 90 lb./ac (2 lb./1000 sf) |                            |                            |
|                                  |                           |                            | 2 tons/ac (50 lb./1000 sf) |

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

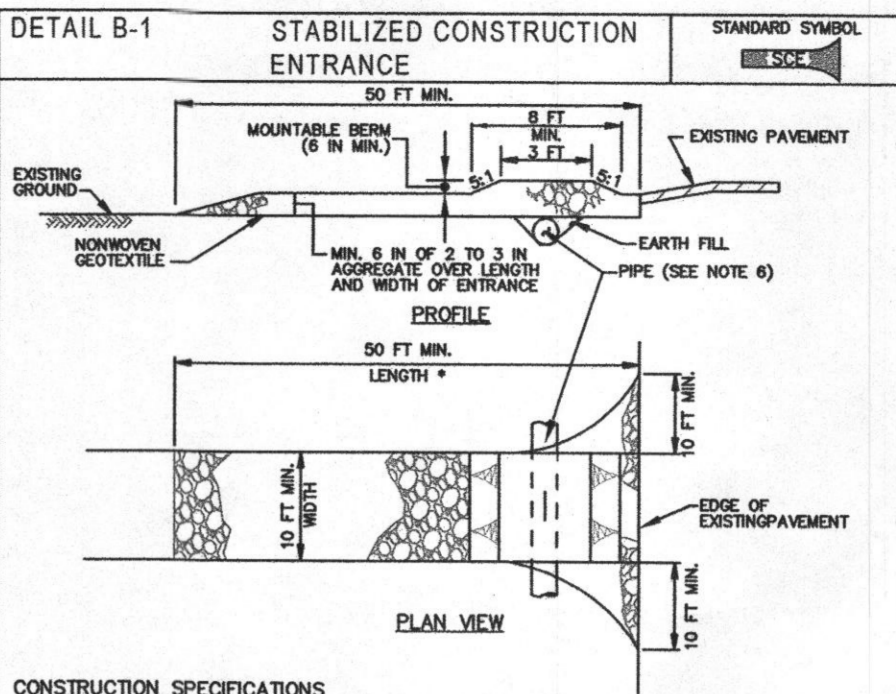
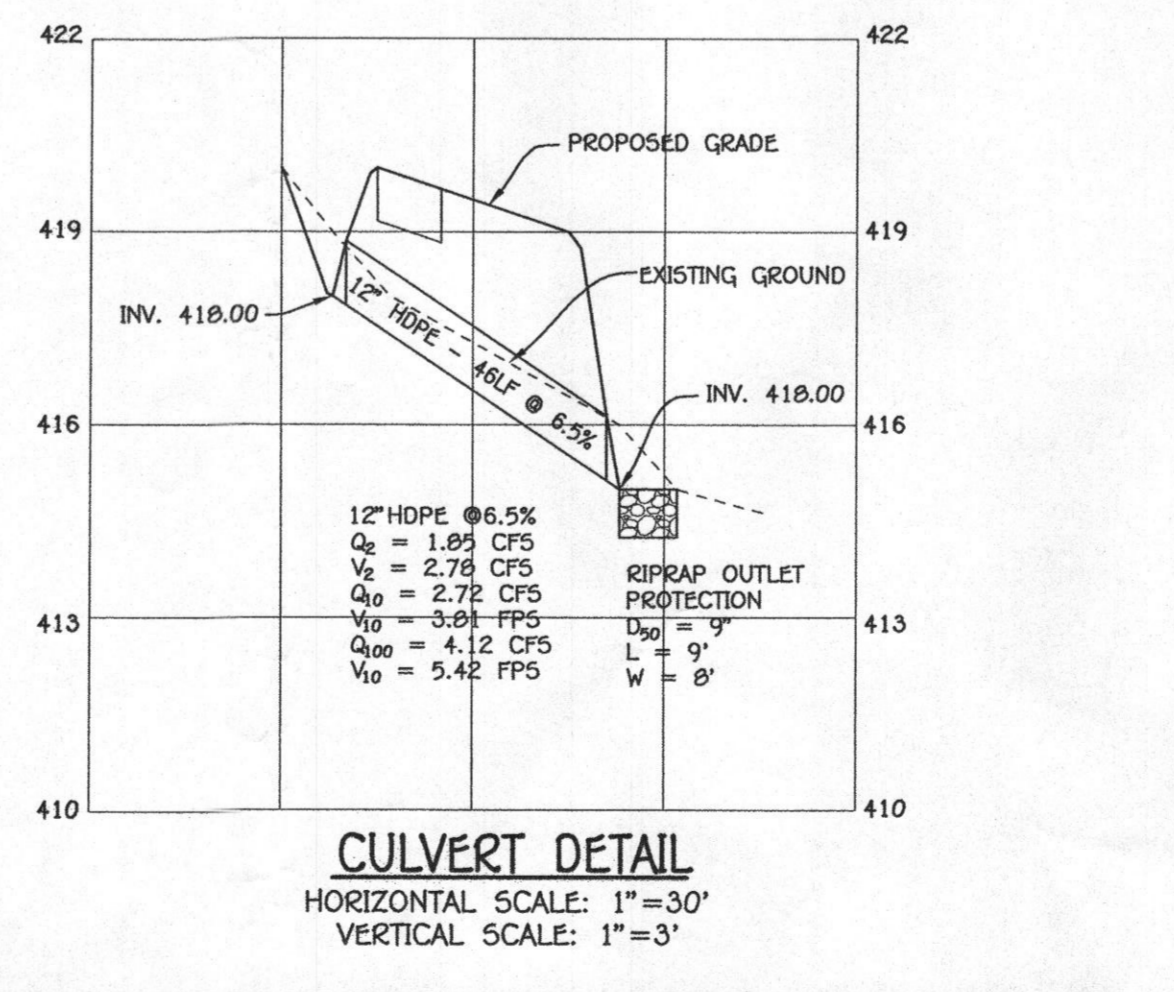
1. General Specifications
  - a. Class of turfgrass sod must be Maryland State Certified. Sod labels must be made available to the job foreman and inspector.
  - b. Sod must be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/8 inch, at the time of cutting. Measurement for thickness 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 section.
  - d. Sod must not be harvested or transported under conditions of excessive dry or wet soil which will adversely affect its survival.
  - e. Sod must be harvested, delivered, and installed within a period of 36 hours. Sod not transported within this period must be approved by an agronomist or soil scientist prior to its installation.
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 flush. Use a trench roller to compact sod joints and to break up air pockets.
  - c. Whenever 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 soil 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.
3. Sod Maintenance
  - a. In the absence of adequate rainfall, water daily during the first week or so often and sufficiently as necessary to maintain moist soil to a depth of 4 inches. Water sod during the first week of the day to prevent white.
  - b. After the first week, sod watering is required as necessary to maintain adequate moisture content.
  - c. Do not mow until the sod is firmly rooted. No more than 3/8 inch 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.

**B-4-8 STANDARDS AND SPECIFICATIONS FOR STOCKPILE AREAS**

- 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.
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. Batching 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 up-slope side.
  5. Clear water runoff into the stockpile area must be minimized by use of a diversion device such as an earth dike, temporary weals or diversion fence. Provisions must be made for discharging concentrated flow in a non-erosive manner.
  6. Where runoff concentration is 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.
- 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, batching must be provided in accordance with Section B-3 Land Grading.

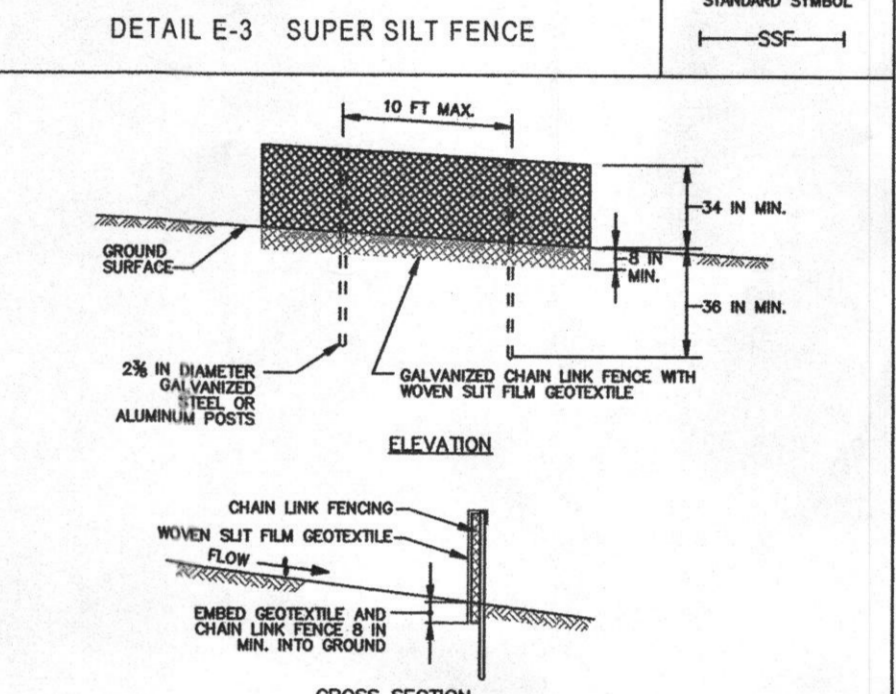
**HOWARD SOIL CONSERVATION DISTRICT STANDARD SEDIMENT CONTROL NOTES**

1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1895).
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 SESSIONS THEREOF.
3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN A) 3 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; B) 7 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
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 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 DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
5. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND USE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PRESSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
6. SITE ANALYSIS: TOTAL AREA OF SITE: 3.02 ACRES; AREA DISTURBED: 0.34 ACRES; AREA TO BE ROOFPED OR PAVED: 0.11 ACRES; AREA TO BE VEGETATIVELY STABILIZED: 0.23 ACRES; TOTAL CUT: 250 CU.YDS.; OFFSITE WASTE/ROOFING AREA LOCATION: N/A
7. ANY SEDIMENT CONTROL PRACTICE THAT 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 HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
9. 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 IN PLACE.
10. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE FEET LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED BY THE END OF EACH WORKING DAY.
11. ANY CHANGES OR REVISIONS TO THE SEQUENCE OF CONSTRUCTION MUST BE REVIEWED AND APPROVED BY THE PLAN APPROVAL AUTHORITY PRIOR TO PROCEEDING WITH CONSTRUCTION.
12. A PRACTICE TO BE SEQUENCED SO THAT GRADING ACTIVITIES BEGIN ON ONE GRADING UNIT (MAXIMUM ACREAGE OF 20 ACRES 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 PROCEEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY. UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.



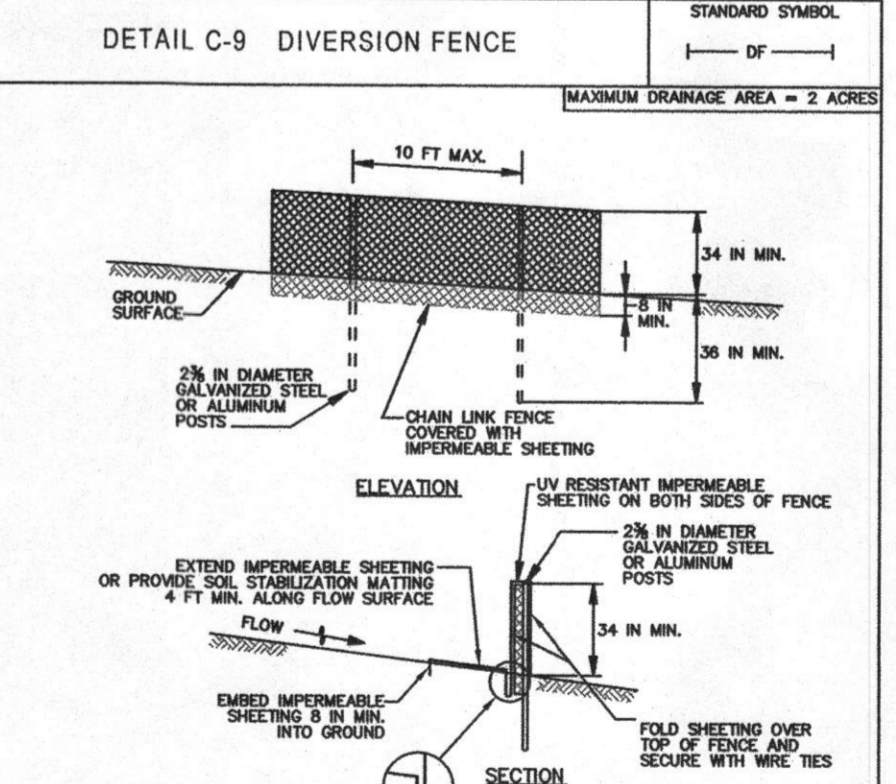
- CONSTRUCTION SPECIFICATIONS**
1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SEC. USE MINIMUM LENGTH OF 50 FEET (50 FEET FOR SINGLE LANE ROAD). USE MINIMUM WIDTH OF 10 FEET. PLACE SEC TO MEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
  2. PIPE ALL SURFACE WATER FLOWING TO OR FROM THE SEC UNDER THE ENTRANCE. MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SEC WITH AN IMMOVABLE BERM WITH 24 INCHES OF SOIL. MAINTAIN BERM WITH 24 INCHES OF SOIL. SEC IS LOCATED AT A HIGH SPOT AND HAS NO SLOPE. TO REMOVE AND TRACKED EQUIPMENT IS NOT NECESSARY. A MOVABLE BERM IS REQUIRED WHEN SEC IS NOT LOCATED AT A HIGH SPOT.
  3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS.
  4. PLACE CURBED AND 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 SEC.
  5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT AND STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAR SURFACE, MOVABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REPAIR TRACKING OF SEDIMENT, STONES, DRIPPED, OR TRACKED ONT ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING OPERATIONS TO REMOVE AND TRACKED EQUIPMENT IS NOT NECESSARY UNLESS WASH WATER IS DIRECTED 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 AND WATER MANAGEMENT ADMINISTRATION



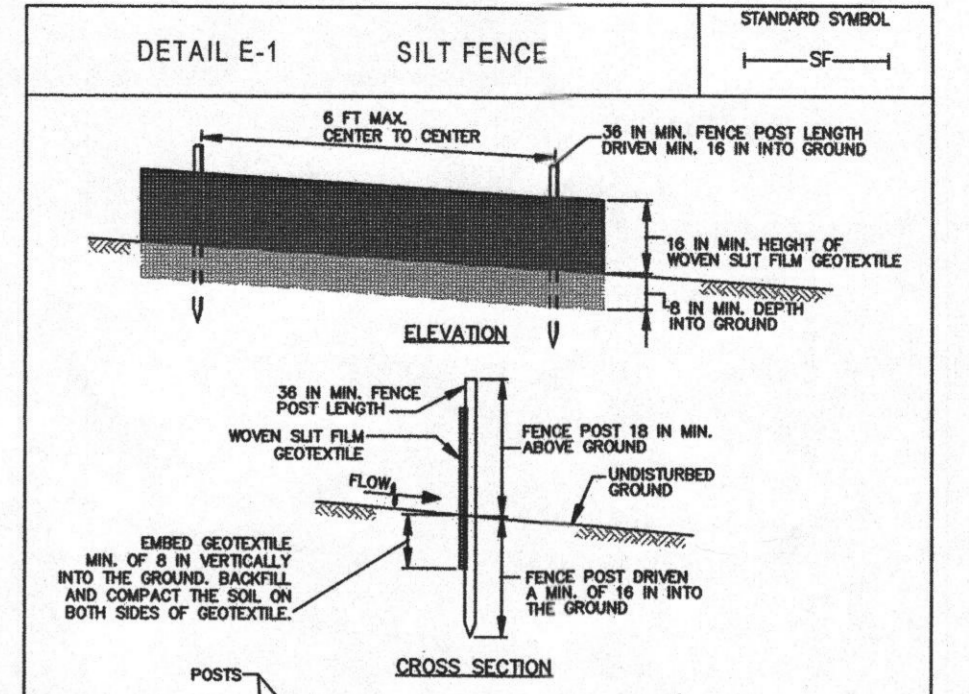
- CONSTRUCTION SPECIFICATIONS**
1. INSTALL 2 1/2 INCH DIAMETER GALVANIZED STEEL POSTS OF 0.005 INCH WALL THICKNESS AND SIX FOOT LENGTH SPACED NO FURTHER THAN 10 FEET APART. DRIVE THE POSTS A MINIMUM OF 36 INCHES INTO THE GROUND.
  2. FASTEN 9 GAUGE OR HEAVIER GALVANIZED CHAIN LINK FENCE (2 1/2 INCH MAXIMUM OPENING) 42 INCHES HIGH SECURELY TO THE SEC POSTS WITH WIRE TIES OR HUD 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 NO SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 6 INCHES INTO THE GROUND. FOLD, AND STAPLED TO PREVENT SEDIMENT BY PASS.
  4. WHERE ENDS OF THE GEOTEXTILE COME TOGETHER, THE ENDS SHALL BE OVERLAPPED BY 6 INCHES.
  5. EXTEND BOTH ENDS OF THE SUPER SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPLOPE 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 INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H-1 MATERIALS. STAPLES MUST BE 1/2 INCH SHARP STEEL. STAPLES MUST BE A MINIMUM OF 8 INCHES LONG. SHARP STEAPLES MUST HAVE A MINIMUM OF 1/2 INCHES WIDE AND BE A MINIMUM OF 3 INCHES LONG. SHARP STEAPLES MUST BE GALVANIZED OR SUPERFICIALLY BONDED OR SOAK IN 2 INCH CENTERS ALONG LONGITUDINAL AXES OF THE MATERIAL TO PREVENT SEPARATION OF THE NET FROM THE PARENT MATERIAL.
  7. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING 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 AND WATER MANAGEMENT ADMINISTRATION

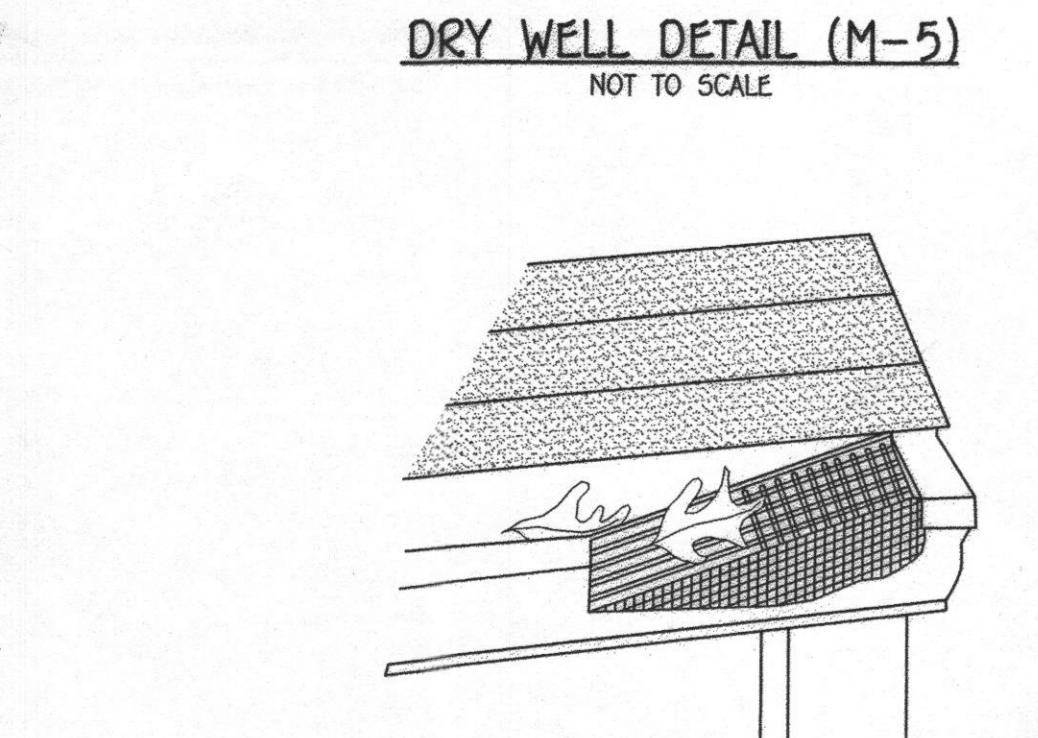
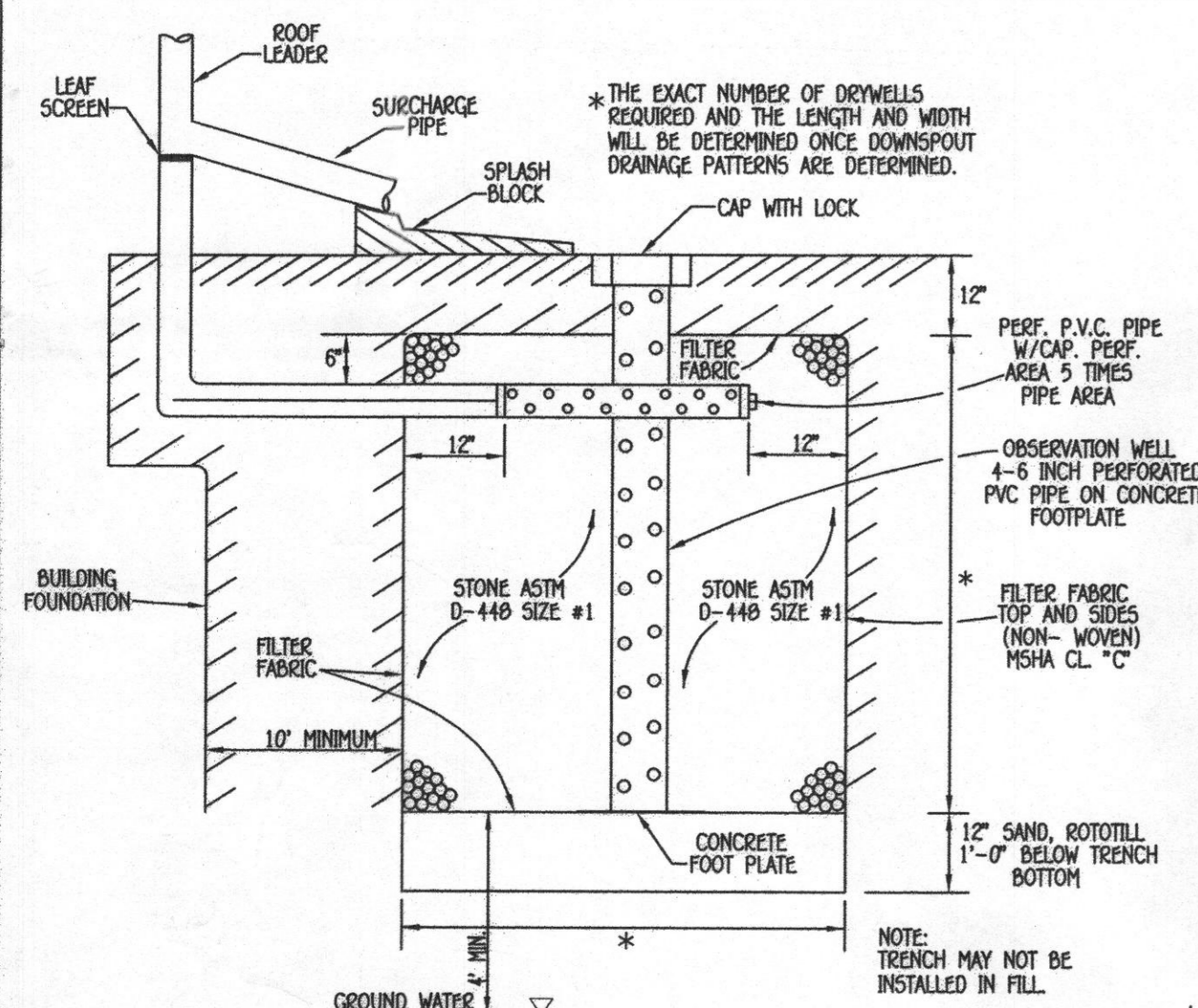


- CONSTRUCTION SPECIFICATIONS**
1. USE 42 INCH HIGH, 9 GAUGE OR THICKER CHAIN LINK FENCING (2 1/2 INCH MAXIMUM OPENING).
  2. SECURE 42 INCH HIGH OR THICKER OR HEAVIER IMPERMEABLE SHEETING TO CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID SECTION, AND BELOW GROUND TO MEET MINIMUM AT THE EXISTING ROADWAY.
  3. FASTEN CHAIN LINK FENCE SECURELY TO THE FENCE POSTS WITH WIRE TIES.
  4. 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 NO SECTION. EMBED GEOTEXTILE AND CHAIN LINK FENCE A MINIMUM OF 6 INCHES INTO THE GROUND. FOLD SHEETING OVER TOP OF FENCE AND SECURE WITH WIRE TIES.
  5. WHEN TWO SECTIONS OF SHEETING ADJOIN EACH OTHER, OVERLAP BY 6 INCHES AND FOLD WITH SEAM TOWARD DRAINAGE.
  6. KEEP FLOW SURFACE ABOVE DIVERSION FENCE AND POINT OF DISCHARGE FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. MAINTAIN POSITIVE DRAINAGE. REPLACE IMPERMEABLE SHEETING IF TORN. IF UNDERMINING OCCURS, REINSTALL CHAIN LINK FENCING AND SHEETING.

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



- CONSTRUCTION SPECIFICATIONS**
1. USE WOOD POSTS 1 1/2 IN X 3/4 IN (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD, AS AN ALTERNATE TO WOODEN POST USE STANDARD 1/4 OR 1/2 SECTION STEEL POSTS WEARING NOT LESS THAN 1 POUND PER LINEAR FOOT.
  2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
  3. USE WOVEN SILT FILM GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO SPECIFIC SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION.
  4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/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 FENCE.
  6. WHEN 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 UPLOPE 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 FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.



**STORMWATER MANAGEMENT NOTES**

1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH CHAPTER 5, "ENVIRONMENTAL SITE DESIGN" OF THE 2007 MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL, EFFECTIVE MAY 4, 2010.
2. MAXIMUM CONTRIBUTING ROOF TOP AREA TO EACH DOWNSPOUT SHALL BE 1,000 SQ. FT. OR LESS.
3. DRYWELLS SHALL BE PROVIDED AT LOCATIONS WHERE THE LENGTH OF DISCONNECTION IS LESS THAN 75' AT 5% SLOPE AND CONSTRUCTION OF THE DRYWELL SHALL BE IN ACCORDANCE WITH THE DETAIL SHOWN ON THIS SHEET.
4. FINAL GRADING IS SHOWN ON THIS SITE DEVELOPMENT PLAN.

| DRY WELL CHART |                             |                 |                 |                   |                  |     |
|----------------|-----------------------------|-----------------|-----------------|-------------------|------------------|-----|
| DRYWELL NO.    | AREA OF ROOF PER DOWN SPOUT | VOLUME REQUIRED | VOLUME PROVIDED | AREA OF TREATMENT | L                | D W |
| RIGHT          | 832 SQ. FT.                 | 66 C.F.         | 60 C.F.         | 100%*             | 7.5' x 7.5' x 3' |     |
| LEFT           | 640 SQ. FT.                 | 51 C.F.         | 59 C.F.         | 100%*             | 7' x 7' x 3'     |     |

\* AREA OF TREATMENT EXCEEDS THAT REQUIRED.

**BUILDER/DEVELOPER'S CERTIFICATE**

"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, FOR SEDIMENT AND EROSION CONTROL 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 THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

Signature: *[Signature]* DATE: 7/10/14

**ENGINEER'S CERTIFICATE**

"I/WE 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 HOWARD SOIL CONSERVATION DISTRICT."

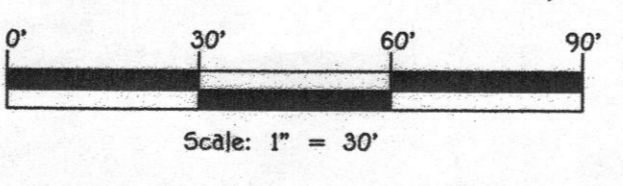
Signature: *[Signature]* DATE: 7/18/14

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

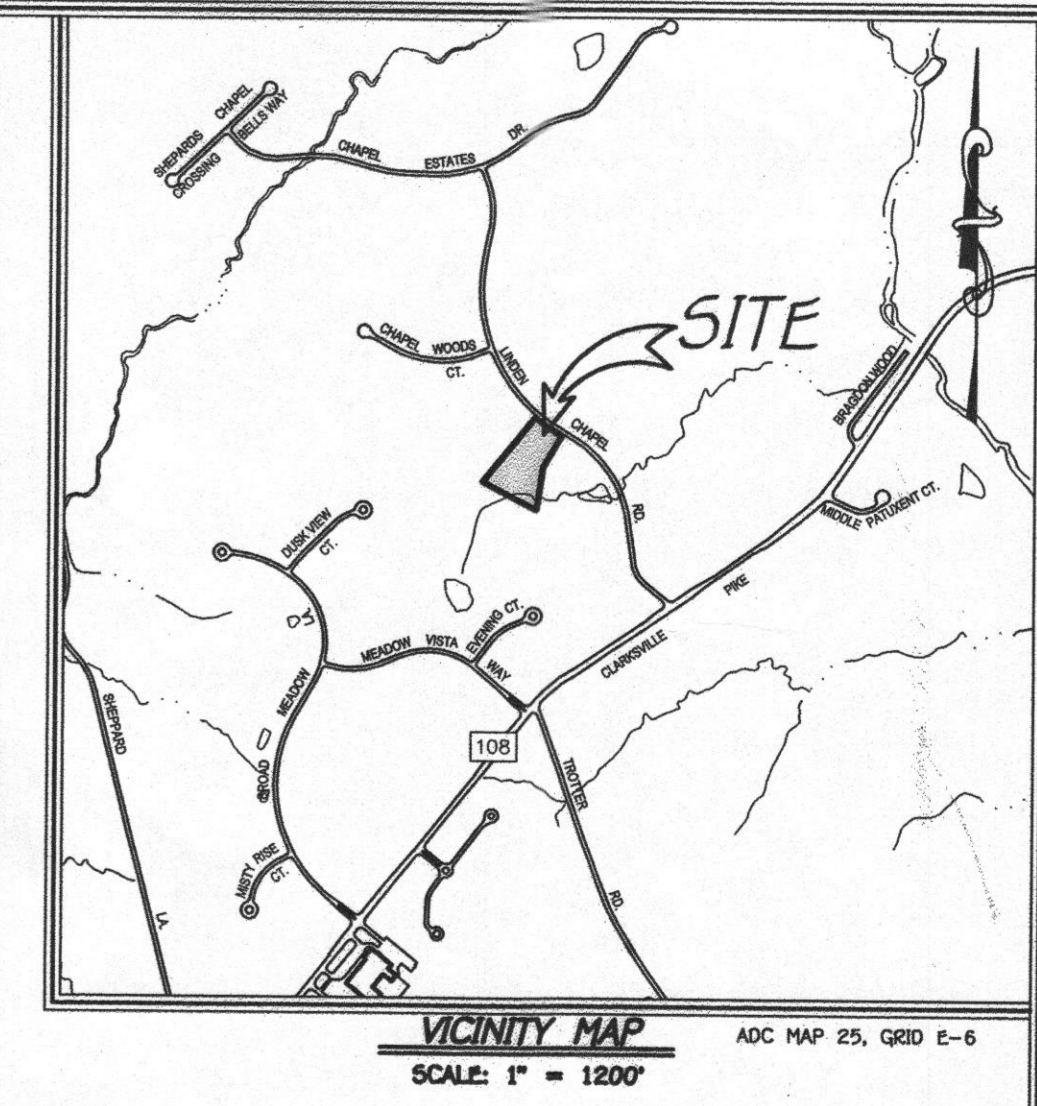
Signature: *[Signature]* DATE: 7/22/14

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2900

**OWNER**  
SHAWN M. PECOR & HANCY PECOR  
11831 LINDEN CHAPEL ROAD  
CLARKSVILLE, MARYLAND 21029



Signature: *[Signature]* DATE: 7/18/14  
Stephanie J. Tuft, P.E. 38306  
Professional certification, I hereby certify that these documents were prepared by me, and that I am a duly Licensed Professional Engineer under the laws of the State of Maryland, License No. 38306, Expiration Date 1-12-16."



**GENERAL NOTES**

1. SUBJECT PROPERTY ZONED: RC-DEO
2. TOTAL AREA OF PROPERTY: 3.02 AC.
3. LIMIT OF DISTURBANCE: 14,906 SQ.FT. OR 0.34 ACRES\*
4. SITE WILL UTILIZE PRIVATE WELL AND SEPTIC. WELL TAG #81-1904, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC. IN MAY 2014.
5. LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
6. CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
7. LOT 7 BOUNDARY OUTLINE BASED ON PLAT #7185.
8. FIELD RUN TOPOGRAPHIC SURVEY CONDUCTED BY FISHER, COLLINS & CARTER, INC. IN MAY, 2014 AND SUPPLEMENTED WITH HOWARD COUNTY GIS TOPOGRAPHIC INFORMATION.
9. NO WETLANDS OR STEEP SLOPES EXIST ON THIS LOT.
10. FLOODPLAIN, STREAM, AND STREAM BUFFER EXIST TO THE REAR OF THE PROPERTY. EXISTING FLOODPLAIN EASEMENT TAKEN FROM PLAT #7185.
11. SOILS SHOWN HEREON ARE BASED ON NRCS WEB SOIL SURVEY AND HOWARD COUNTY SOILS MAP 17.
12. PREVIOUS DPZ FILE No.: 7185.
13. THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY EXECUTION OF A DECLARATION OF INTENT FOR CLEARING UNDER 20,000 SQUARE FEET FOR FOREST, 14,300 SQUARE FEET IS PROPOSED TO BE CLEARED.

| LEGEND     |  |
|------------|--|
| SYMBOL     | DESCRIPTION  |
| ---        | EXISTING CONTOUR 2' INTERVAL                       |
| ---        | PROPOSED CONTOUR 2' INTERVAL                       |
| 382.5      | SPOT ELEVATION                                     |
| -SF - SF   | SILT FENCE   |
| -SSF - SSF | SUPER SILT FENCE                                   |
| ---        | EX. TREELINE                                       |
| ---        | PROP. TREELINE                                     |
| ---        | LIMITS OF DISTURBANCE                              |
| ---        | EROSION CONTROL MATTING                            |
| ---        | BORING EXCAVATIONS                                 |
| ---        | EX. WELL   |
| ---        | PROP. NON-ROOFTOP DISCONNECTION                    |
| ---        | EX. 100 YR FLOODPLAIN, DRAINAGE & UTILITY EASEMENT |
| ---        | PROPOSED DRIVEWAY                                  |
| ---        | STABILIZED CONSTRUCTION ENTRANCE                   |

**OPERATION & MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED DRY WELLS (M-5)**

- A. THE OWNER SHALL INSPECT THE MONITORING WELLS AND STRUCTURES ON A QUARTERLY BASIS AND AFTER EVERY HEAVY STORM EVENT.
- B. THE OWNER SHALL RECORD THE WATER LEVELS AND SEDIMENT BUILD UP IN THE MONITORING WELLS OVER A PERIOD OF SEVERAL DAYS TO ENSURE TRENCH DRAINAGE.
- C. THE OWNER SHALL MAINTAIN A LOG BOOK TO DETERMINE THE RATE AT WHICH THE FACILITY DRAINS.
- D. WHEN THE FACILITY BECOMES CLOGGED SO THAT IT DOES NOT DRAIN DOWN WITHIN A SEVENTY-TWO (72) HOUR TIME PERIOD, CORRECTIVE ACTION SHALL BE TAKEN.
- E. THE MAINTENANCE LOG BOOK SHALL BE AVAILABLE TO HOWARD COUNTY FOR INSPECTION TO INSURE COMPLIANCE WITH OPERATION AND MAINTENANCE CRITERIA.
- F. ONCE THE PERFORMANCE CHARACTERISTICS OF THE INFILTRATION FACILITY HAVE BEEN VERIFIED, THE MONITORING SCHEDULE CAN BE REDUCED TO AN ANNUAL BASIS UNLESS THE PERFORMANCE DATA INDICATES THAT A MORE FREQUENT SCHEDULE IS REQUIRED.

| SOILS LEGEND |  |       |          |  |
|--------------|--|-------|----------|--|
| SOIL         | NAME                                       | CLASS | K FACTOR |  |
| GbB          | Gladstone loam, 3 to 8 percent slopes      | B     | 0.20     |  |
| GbC          | Gladstone loam, 8 to 15 percent slopes     | B     | 0.20     |  |
| GmB          | Glenville silt loam, 3 to 8 percent slopes | C     | 0.37     |  |
| MAD          | Manor loam, 15 to 25 percent slopes        | B     | 0.24     |  |

**GRADING AND SEDIMENT & EROSION CONTROL PLAN  
CHAPEL WOODS  
LOT 10**

(PLAT #7185)  
11831 LINDEN CHAPEL ROAD  
ZONED: RC-DEO  
TAX MAP: 29 PARCEL: 354 GRID: 14  
FIFTH ELECTION DISTRICT - HOWARD COUNTY, MARYLAND  
SCALE: 1"=30' DATE: JULY, 2014  
SHEET 1 OF 2