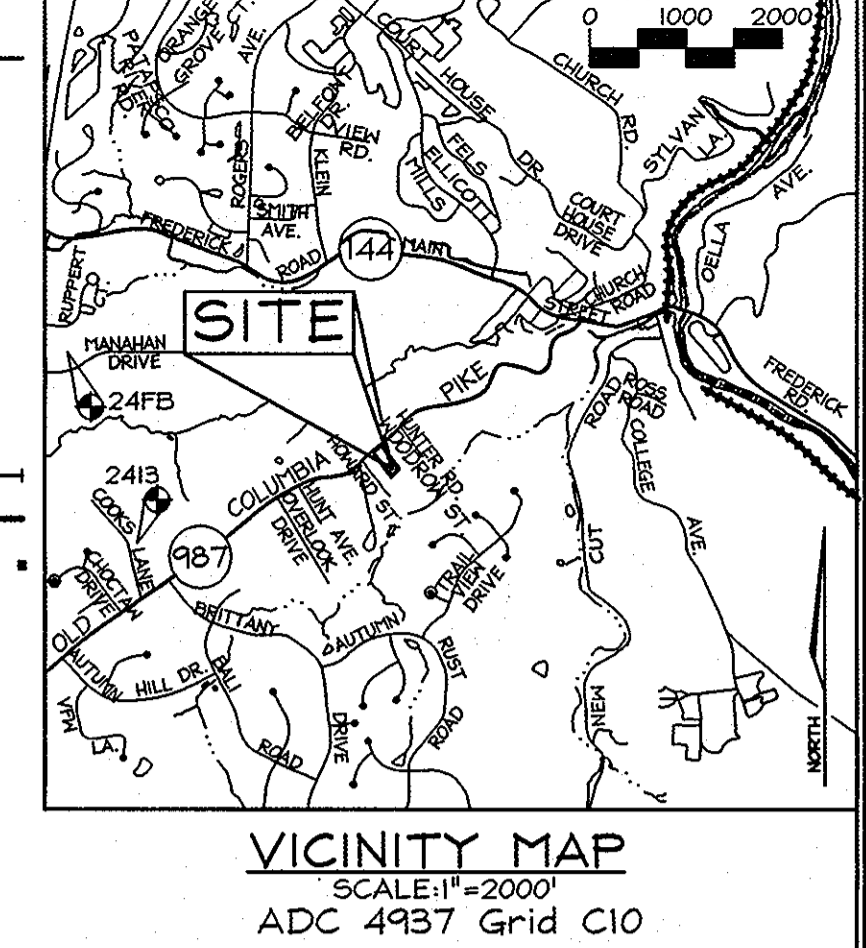
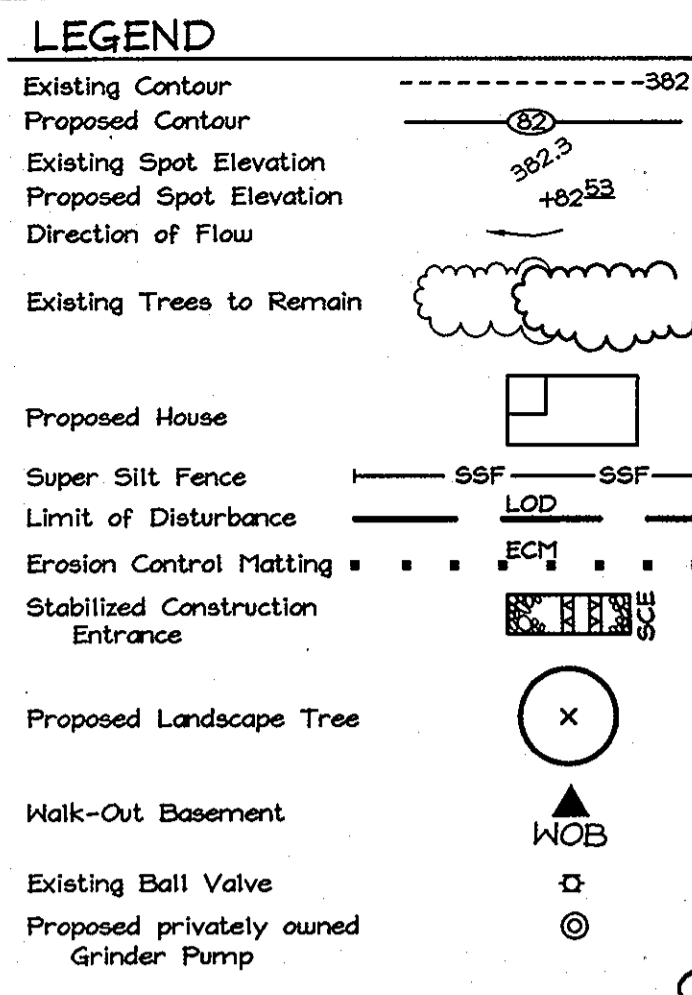


TYPICAL TREE PLANTING AND STAKING  
DECIDUOUS TREES UP TO 2-1/2" CALIPER NOT TO SCALE

GENERAL NOTES

- The subject property is zoned R-20 per the 02/02/04 Comprehensive Zoning Plan and per the "Comp Lite" Zoning Amendments effective on 07/28/06.
- Total area of property = 7,887 sq. ft. or 0.181 ac.
- Public water and sewer will be used within this site via existing Contract II-W # 31-S.
- In accordance with Section 12B of the Howard County Zoning Regulations, bay windows, chimneys or exterior stairways not more than 16 feet in width may project not more than 4 feet into any setbacks, porches or decks, open or enclosed may project not more than 10 feet into the front or rear yard setback.
- Driveway(s) shall be provided prior to issuance of a use and occupancy permit to ensure safe access for fire and emergency vehicles per the following requirements:
  - Width - 12 feet (6 feet serving more than one residence);
  - Surface - 3/4" (6") inches of compacted crusher run base with tar and chip coating (1-1/2" minimum);
  - Geometry - Maximum 15% grade, Maximum 10% grade change and 45-foot turning radius;
  - Structures (culverts/bridges) - capable of supporting 25 gross tons (H25-loading);
  - Drainage elements - capable of safely passing 100 year flood with no more than 1 foot depth over surface;
  - Maintenance - sufficient to ensure all weather use.
- There are no floodplains, historic structures or cemeteries on-site.
- Previous Howard County file numbers: F-05-132
- This property is subject to the Amended 5th edition of the Howard County Subdivision and Land Development Regulations.
- This Site Development Plan has been prepared in accordance with Section 16.124 of the Howard County Code and the Landscape Manual. Financial surety is based on the required landscaping of 1 shade trees @ \$300.00 in the amount of \$300.00, provided with and done as a part of the grading permit application.
- The contractor shall notify the following utility companies or agencies at least five (5) working days before starting work shown on these plans:
 

State Highway Administration	410.531.5533
BGE (contractor services)	410.950.4620
BGE (underground damage control)	410.787.9068
Miss Utility	1.800.257.7777
Colonial Pipeline Company	410.795.1390
Howard County, Dept. of Public Works, Bureau of Utilities	410.313.4900
Howard County Health Department	410.313.2640
- The contractor shall notify Miss Utility at 1-800-257-7777 at least 48 hours prior to any excavation work being done.
- All construction shall be in accordance with the latest standards and specifications of Howard County standards and specifications if applicable.
- This project is exempt per Section 16.1202(b)(1)(i) for a Forest Conservation Plan for development on land which is less than 40,000 square feet.



GEODETIC SURVEY CONTROLS  
Coordinates based on NAD 83/91, Maryland Coordinate System as projected by Howard County. Geodetic Control Stations no. 24FB and no. 2413. Ⓞ Denotes approximate location (see vicinity map).  
Sta. 24FB N 582,652.103 E 1,364,255.930 El. 423.274 (feet).  
Sta. 2413 N 580,648.904 E 1,364,474.471 El. 404.482 (feet).

- Contractor to verify all dimensions in the field and if a discrepancy is found, contact the engineer.
- All water house connections shall be for outside metering settings.
- STORMWATER MANAGEMENT PROVIDED BY SHEET PLAN TO BUFFER CREDITS AND A FEE-IN-LIEU IN THE AMOUNT OF \$310.00.
- This site is located within the metropolitan district.
- BRL Denotes Building Restriction Line.
- Field run boundary and topographic survey prepared by FSH Associates on November 4, 2004.
- This project is exempt from preparing an A.P.F.O. traffic study due to reduction in the number of buildable lots from three (3) to two (2).
- Wetlands delineation and report prepared by Exploration Research Inc.
- The lots shown herein comply with the minimum ownership, width and lot area as required by the Maryland State Department of the Environment.
- The lot is non-conforming with respect to the lot size requirements of the R-20 district. The merging of three lots into two lots moves lot sizes toward regulatory compliance.
- For flag or pipestem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag or pipestem and road right-of-way line and not to the pipestem lot driveway.

LANDSCAPE NOTES

- At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscaping Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
- The owner, tenant, and/or their agents shall be responsible for maintenance of the required landscaping, including both plant materials and berms, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- Financial surety for the required landscaping will be posted as part of the Developer's Grading Permit in the amount of \$300.00 (1 tree @ \$300.00 each) at Site Development Plan Stage.
- Perimeter landscaping shall be planted at the Site Development plan stage.

GENERAL NOTES (CONTINUED)

- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410) 313-1830 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- EXISTING UTILITIES ARE BASED ON AS-BUILT PLANS PROVIDED BY THE BUREAU OF UTILITIES.
- ANY DAMAGE TO THE COUNTY'S RIGHT-OF-WAY SHALL BE CORRECTED AT THE DEVELOPER'S EXPENSE.
- SHC SHOWN WITH ELEVATIONS ARE LOCATED AT THE PROPERTY LINE.
- FOR DRIVEWAY ENTRANCE DETAILS REFER TO THE HOWARD COUNTY DESIGN MANUAL, VOLUME II, STANDARD DETAIL R-6.06.

SITE ANALYSIS DATA CHART

- Total project area: 0.181 Acres±
- Limit of disturbed area: 0.114 Acres±
- Subject property Zoned "R-20" per 02/02/04 Comprehensive Zoning Plan and per the "Comp Lite" Zoning Regulation Amendments effective 7/28/06.
- Proposed uses for site & structures: Single Family Dwelling
- Floor space on each level of building(s) per use: See house templates.
- Building coverage of site: 0.039 Acres or 21.5% of Gross Area.
- DPZ file references: F-05-132
- Total number of units proposed for this submission: 1

LANDSCAPE SCHEDULE

KEY	QUAN.	BOTANICAL NAME	SIZE	NOTE
⊙	1	Acer Rubrum	2 1/2" - 3" Cal.	B & B
⊙	1	October Glory Red Maple	2 1/2" - 3" Cal.	B & B

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO ROADWAYS	ADJACENT TO PERIMETER PROPERTIES
Perimeter/Frontage Designation	1	3
Linear Feet of Roadway	59**	58
Credit for Existing Vegetation (Yes, No, Linear Feet)	No	Yes 58 No 78
Remaining Perimeter Length	No	No
Number of Plants Required	1:50 - 1:40 -	1:60 0 1:60 1
Number of Plants Provided	1:50 - 1:40 -	0 1

COORDINATE TABLE

POINT	NORTHING	EASTING
28	581,525.1047	1,367,636.9276
29	581,491.2767	1,367,705.1271
31	581,342.4212	1,367,612.7548

ADDRESS CHART

LOT	STREET
2	3438 Woodrow Street

MINIMUM LOT SIZE CHART

LOT NUMBER	GROSS AREA (sq ft)	PIPESTEM AREA (sq ft)	MINIMUM LOT SIZE
2	7,887 ±	522 ±	7,365 ±

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
BrB2	Brandywine loam, 3 to 8 percent slopes, moderately eroded	C
BrC2	Brandywine loam, 8 to 15 percent slopes, moderately eroded	C
BrC3	Brandywine loam, 8 to 15 percent slopes, severely eroded	C
BrD3	Brandywine loam, 15 to 25 percent slopes, severely eroded	C
BrF	Brandywine loam, 25 to 60 percent slopes	C

DEVELOPER'S BUILDER'S CERTIFICATE  
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL. I/WE FURTHER CERTIFY THAT UPON COMPLETION, A LETTER OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE(1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.  
Signature of Developer: [Signature] DATE: 11/19/10  
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING  
Signature of Chief: [Signature] DATE: 12/3/10  
Signature of Director: [Signature] DATE: 12/6/10

DEVELOPER CONTRACT PURCHASER  
Mr. Tim Burkard  
Burkard Homes, LLC  
5300 Dorsey Hall Drive, Suite 102  
Ellicott City, MD, 21043  
443.367.0422

OWNER  
Mr. Jeffrey C. Firman  
3430 Woodrow Street  
Ellicott City, MD, 21043-5433  
410.461.4862

PERMIT INFORMATION CHART  
Subdivision Name: Firman  
Deed / Plat: Plat #17986  
Grid: 1B  
Zoning: R-20  
Tax Map No.: 25  
Elect. District: 2nd  
Section/Area: N/A  
Lot/Parcel No.: Lot 2  
Census Tract: 6028  
PROFESSIONAL CERTIFICATION  
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 07/24/2011.

SITE DEVELOPMENT PLAN  
**FIRMAN PROPERTY**  
LOT 2  
PLAT #17986  
TAX MAP 25 GRID 1B  
2ND ELECTION DISTRICT  
PARCEL 37  
HOWARD COUNTY, MARYLAND

FSH Associates  
Engineers Planners Surveyors  
6339 Howard Lane, Ellicott City, MD 21075  
Tel: 410-587-5200 Fax: 410-796-1562  
E-mail: info@fsh.com

DESIGN BY: CRH2  
DRAWN BY: CRH2  
CHECKED BY: ZYF  
SCALE: As Shown  
DATE: Nov. 19, 2010  
P.L.O. No.: 3667  
SHEET No.: 1 OF 2



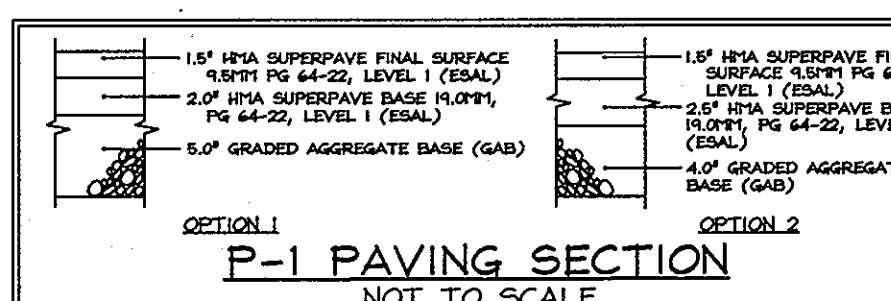
SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Public Works Sediment Control Division prior to the start of any construction (410-313-1855).
- 2. All vegetation and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, and revisions thereto.
- 3. Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within: (a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes, and all slopes greater than 3:1, (b) 14 days for all other disturbed or graded areas on the project site.
- 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 7, HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seeding, sod, temporary seeding, and mulching (Sec. G). Temporary stabilization with mulch alone shall be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7. Site Analysis:
Total Area 0.181 Acres
Area Disturbed 0.114 Acres
Area to be seeded or paved 0.065 Acres
Area to be vegetatively stabilized 0.049 Acres
Total Cut 500 CY ##
Offsite waste/borrow area location #
8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
9. Additional sediment controls must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
11. Trenches for the construction of utilities are limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
12. Earthwork quantities are solely for the purpose of calculating fees. Contractor to verify all quantities prior to the start of construction.
13. To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

SEQUENCE OF CONSTRUCTION

- 1. Obtain grading permit.
2. Notify Howard County Department of Public Works, Bureau of Engineering, Construction Inspection Division at (410) 313-1880 at least 24 hours before starting any work.
3. Install Stabilized Construction Entrance and Super Silt Fence.
4. Rough grade site and begin house construction. (1 week)
5. Fine grade site. (1 week)
6. Upon stabilization of all disturbed areas and with the permission of the Sediment Control Inspector, remove all sediment control measures and stabilize any remaining disturbed area. (1 week)

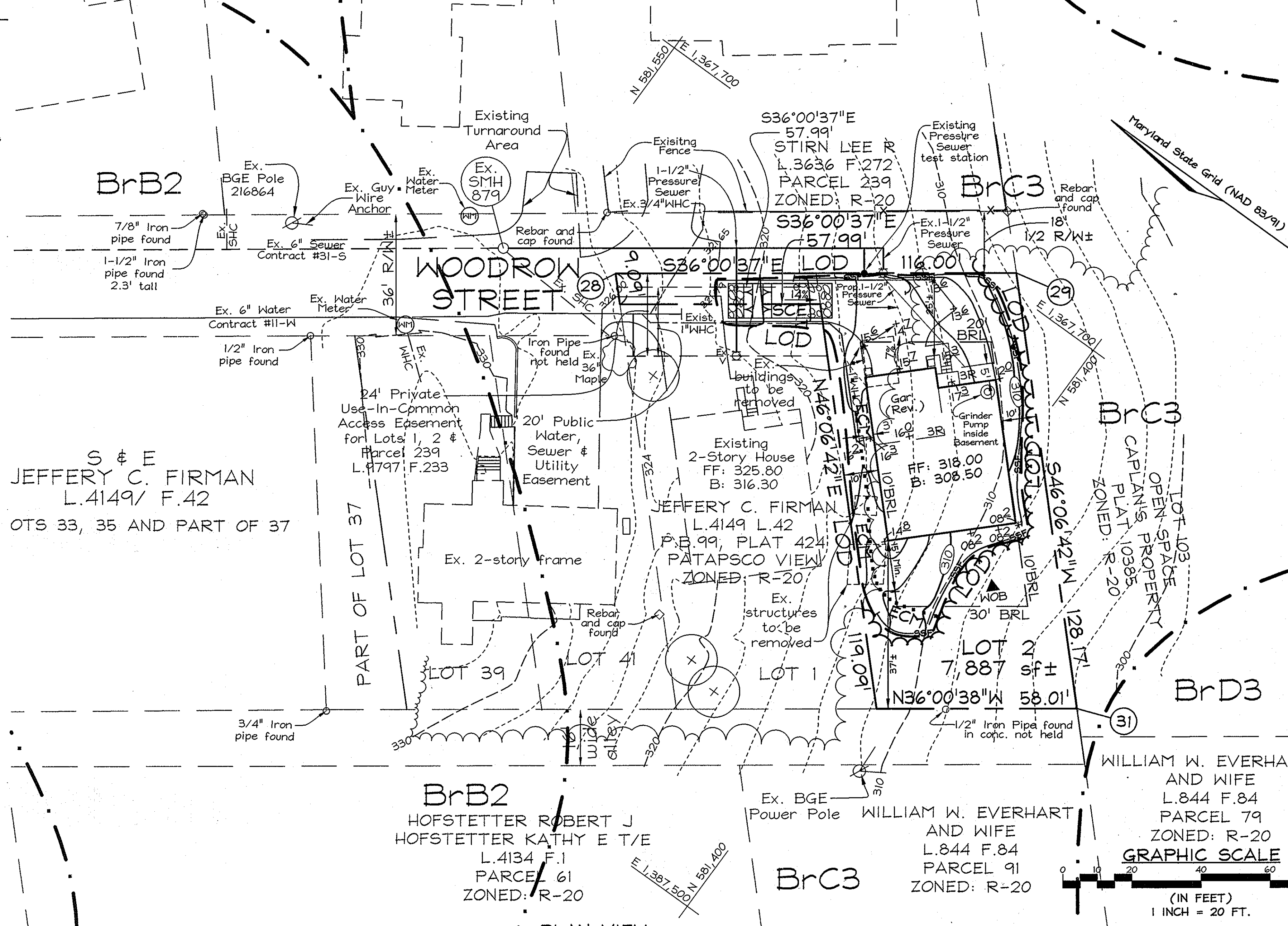
Note:
- Following initial soil disturbance or any redistributions, permanent or temporary stabilization shall be completed within:
a. 7 calendar days for all perimeter sediment control structures, dikes, swales and all slopes greater than 3:1.
b. 14 calendar days for all other disturbed areas.
- During grading and after each rainfall, contractor will inspect and provide necessary maintenance to the sediment control measures on this plan.



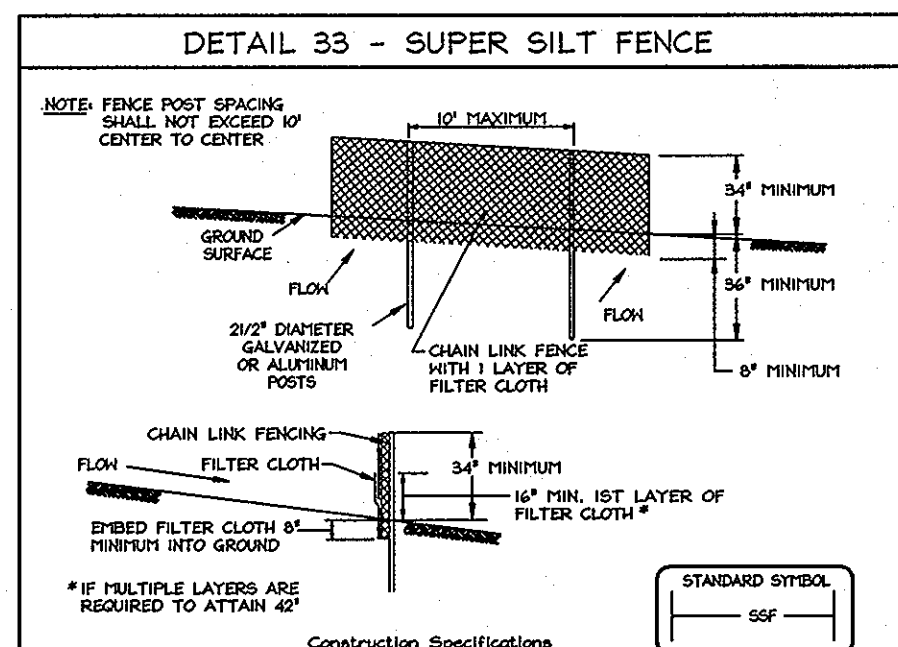
Note:
Paving sections shown are based on a California Bearing Ratio (CBR) of greater than or equal to 7. Actual CBR tests may result in modifications to the paving sections. For other CBR values go to the Howard County Volume IV Design Manual, standard detail R-2.01, for associated P-1 Paving Sections.

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 ALL 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.
11/19/10 DATE

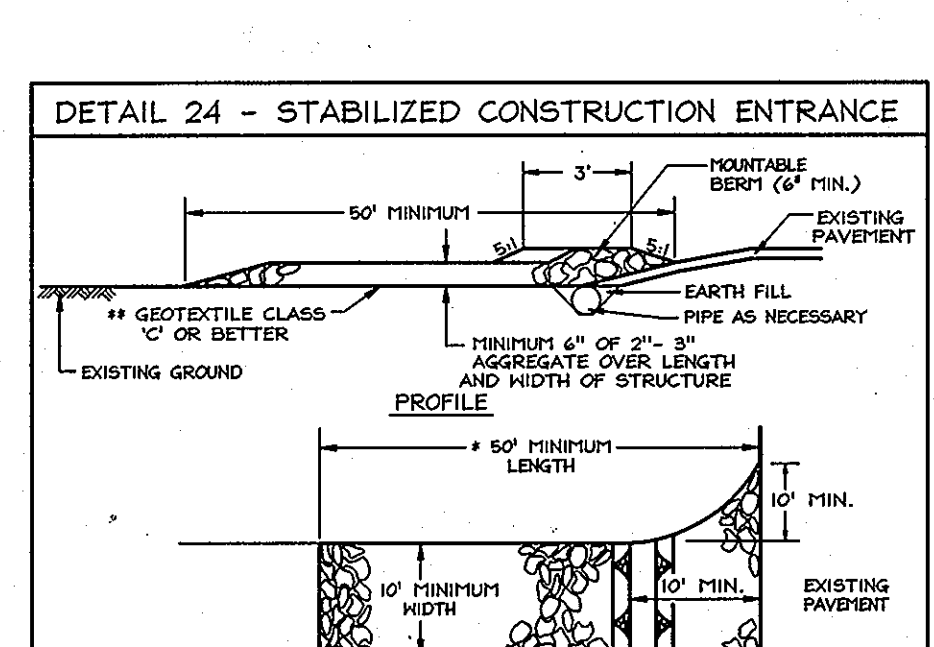
APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Chief, Development Engineering Division, 12/31/10 DATE
Chief, Division of Land Development, 12/06/10 DATE
Director, 12/16/10 DATE



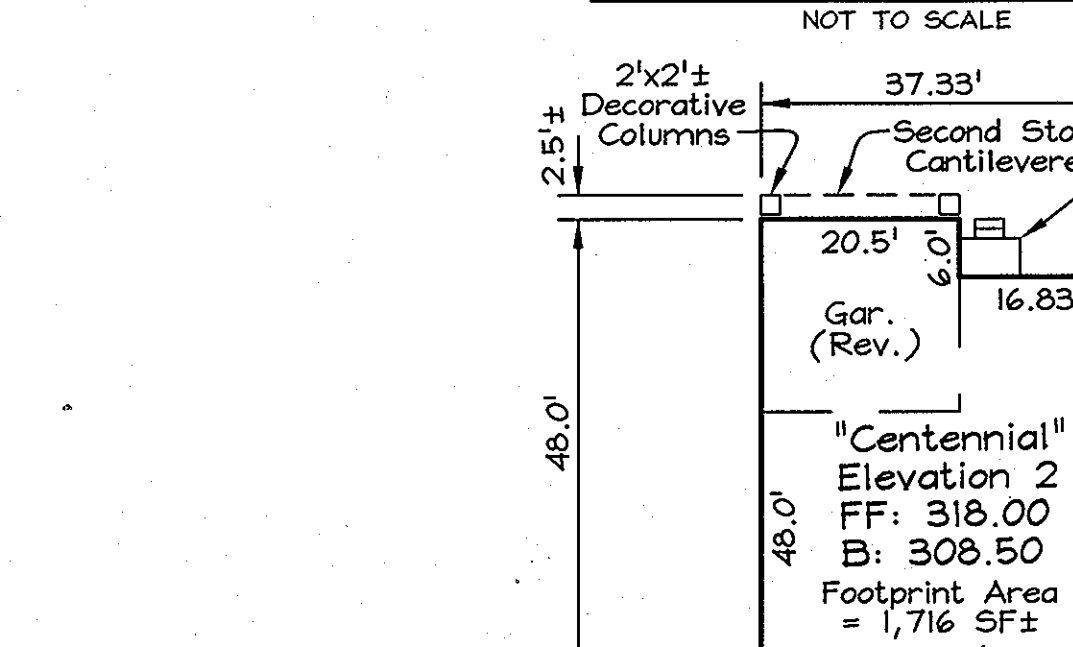
PLAN VIEW SCALE: 1\"/>



Construction Specifications
1. Fencing shall be 42\"/>



Construction Specification
1. Length - minimum of 50\"/>



CENTENNIAL HOUSE TEMPLATE SCALE: 1\"/>

DEVELOPER CONTRACT PURCHASER: Mr. Tim Burkard, Burkard Homes, LLC, 8300 Dorsey Hall Drive, Suite 102, Ellicott City, MD, 21043, 443.567.0422
OWNER: Mr. Jeffrey C. Firman, 3930 Woodrow Street, Ellicott City, MD, 21043-5493, 410.461.4682

SITE DEVELOPMENT PLAN SEDIMENT AND EROSION CONTROL PLAN FIRMAN PROPERTY LOT 2 PLAT #17986 TAX MAP 25 GRID I3 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND PARCEL 37

PERMIT INFORMATION CHART
Subdivision Name: Firman
Section/Area: N/A
Lot/Parcel No: Lot 2
Deed / Plat: Plat #17986
Grid: I3
Zoning: R-20
Tax Map No.: 25
Elect. District: 6028
Census Tract: 6028
PROFESSIONAL CERTIFICATION
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. #22418, Expiration Date: 07/29/2011.

FISH Associates Engineers Planners Surveyors 8339 Howard Lane, Elkridge, MD 21075 Tel: 410-567-5200 Fax: 410-796-1582 E-mail: info@fish.com
DESIGN BY: CRH2
DRAWN BY: ZYF
CHECKED BY: AS Shoun
SCALE: Nov. 19, 2010
P.L.O. No.: 3667
SHEET No.: 2 OF 2

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:
1) Preferred-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At the time of seeding, apply 400 lbs. per acre 20-20-20 uniform fertilizer (8 lbs./1000 sq.ft.).
2) Acceptable-Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (28 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking or other acceptable means before seeding, if not previously loosened.
SOIL AMENDMENTS: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs./1000 sq.ft.).
SEEDING: For periods March 1 thru April 30, and August 1 thru October 15, seed with 2 1/2 bushel per acre of annual ryegrass (5.2 lbs./1000 sq.ft.). For the period May 1 thru July 31, seed with 5 lbs. per acre of urea, superphosphate, (07 lbs./1000 sq.ft.). For the period November 1 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Use seed. Option (3) Seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 140 lbs./1000 sq.ft.) of untreated small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 280 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 5 feet or higher, use 348 gallons per acre (6 gal/1000 sq.ft.) for anchoring.
MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

DEFINITION

DEFINITION: Controlling dust blowing and movement on construction sites and roads.
PURPOSE: To prevent blowing and movement of dust from exposed soil surfaces, reduce on-site air pollution, health hazards, and improve traffic safety.
This practice is applicable to areas subject to dust blowing and movement where wind-blown soil is likely without treatment.
SPECIFICATIONS:
1. Turfgrass - Standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
2. Vegetative Cover - See standards for temporary vegetative cover.
3. Turfgrass - To roughen surface and bring silt to the surface. This is an emergency measure which should be used before soil blowing starts. Both placed on windward side of site. Check-type stone applied about 12\"/>

21.0 STANDARDS AND SPECIFICATIONS FOR TOPSOIL

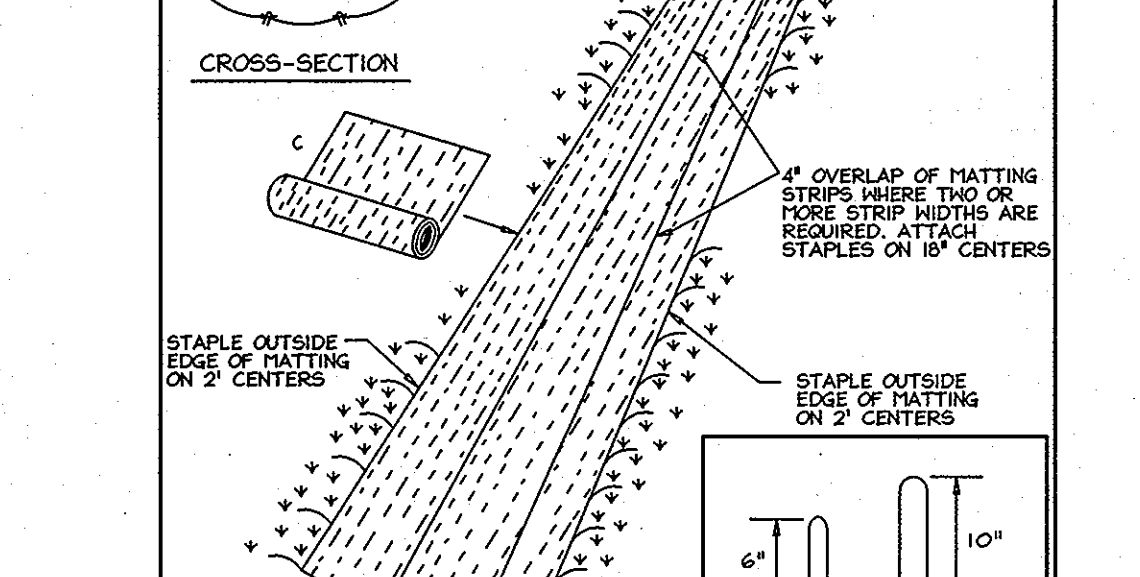
Definition: Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.
Purpose: To provide a suitable soil medium for vegetation growth. Soils of construction have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.
Conditions Where Practice Applies: This practice is limited to areas having 2:1 or flatter slopes where:
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 nutrients.
c. The original soil to be vegetated contains material toxic to plant growth.
d. The soil is so acidic that treatment with limestone is not feasible.

Construction and Material Specifications

I. Topsoil advanced from the existing site may be used provided that 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 profile section in the Soil Survey Report published by the Agricultural Experiment Station in cooperation with Maryland Agricultural Experiment Station.
II. Topsoil Specifications - Soil to be used as topsoil must meet the following:
1. Topsoil shall be a loam, sandy loam, clay loam, silt loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or a soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall be a mixture of contrasting textures. Subsoils and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1 and 1/2\"/>

DEFINITION

DEFINITION: Controlling dust blowing and movement on construction sites and roads.
PURPOSE: To prevent blowing and movement of dust from exposed soil surfaces, reduce on-site air pollution, health hazards, and improve traffic safety.
This practice is applicable to areas subject to dust blowing and movement where wind-blown soil is likely without treatment.
SPECIFICATIONS:
1. Turfgrass - Standards for vegetative stabilization with mulches only. Mulch should be crimped or tacked to prevent blowing.
2. Vegetative Cover - See standards for temporary vegetative cover.
3. Turfgrass - To roughen surface and bring silt to the surface. This is an emergency measure which should be used before soil blowing starts. Both placed on windward side of site. Check-type stone applied about 12\"/>



DETAIL 30 - EROSION CONTROL MATTING

Construction Specifications
1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6\"/>

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE G-22-2 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION