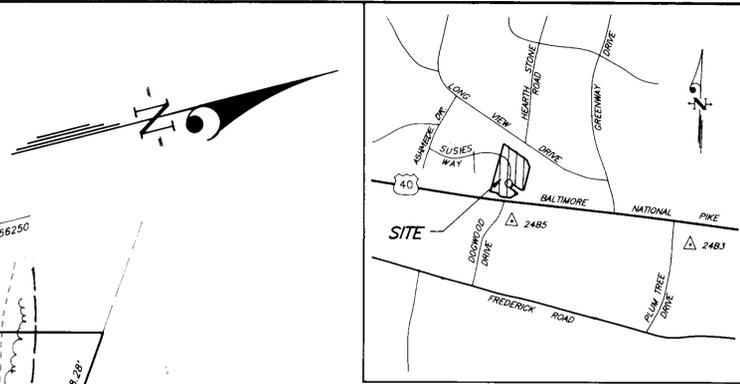
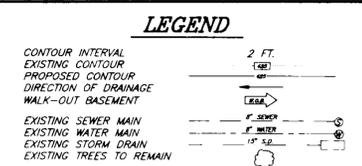
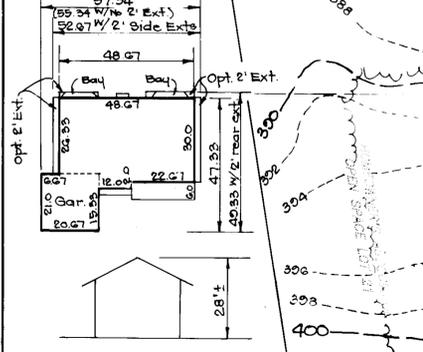


ADDRESS CHART			
LOT NUMBER	STREET ADDRESS	LOT NUMBER	STREET ADDRESS
1	5925 SUSIE'S WAY	11	5965 SUSIE'S WAY
2	5926	13	5973
3	5935	14	5972
4	5937	15	5968
5	5941	16	5964
6	5945	17	5960
7	5940	18	5950
8	5935	19	5940
9	5937	20	5930
10	5932		

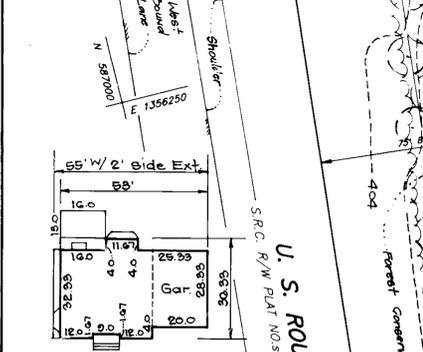


ABBOTT LAWRENCE I & II

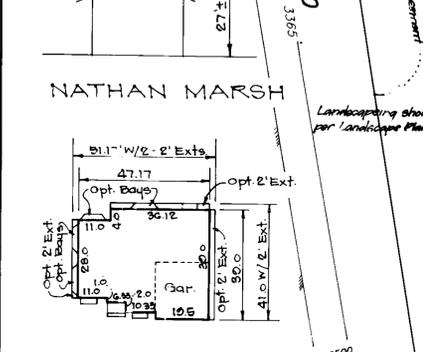
CHARLES WILLIAM



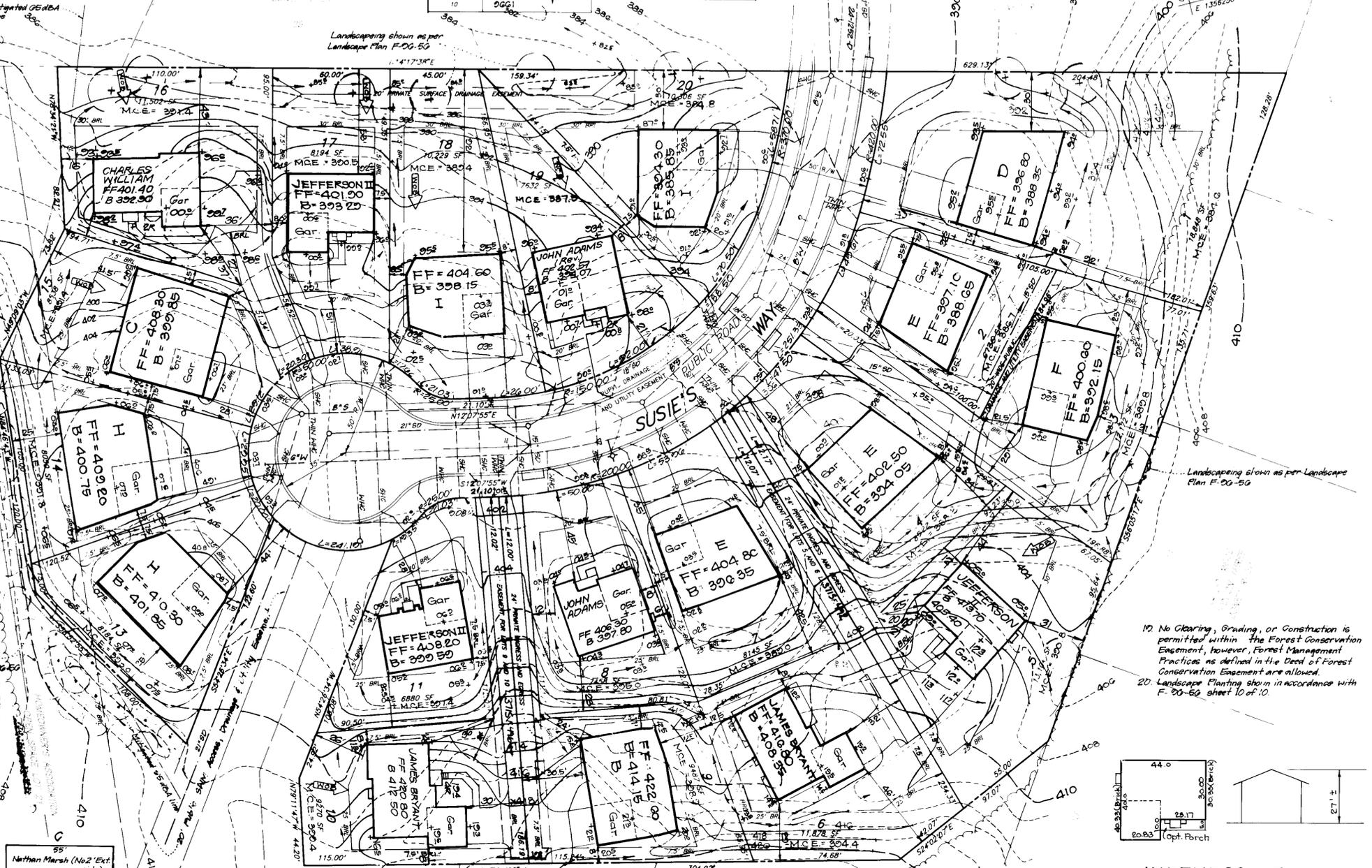
JAMES BRYANT



NATHAN MARSH



CAMBRIDGE



- GENERAL NOTES:**
- Subject property is zoned: R-ED per 10-18-93 Comprehensive Zoning Plan.
 - The total area included in this submission is: 4.25 Acres
 - The total number of lots included in this submission is: 19
 - Improvement to property: Single Family Detached
 - The maximum lot coverage permitted is: N/A
 - Department of Planning and Zoning reference file numbers are: 8-25-02, P-20-02, W-25-02, F-20-50, W-5 Cont. # 24-3486-D
 - Utilities shown as existing are taken from approved Water and Sewer plans Contract # 24-3480-D, approved Road Construction plans F-20-50, and actual field survey.
 - Any damage to county owned rights-of-way shall be corrected at the developer's expense.
 - All roadways are public and existing.
 - The existing topography was taken from Road Construction plans F-20-50 prepared by Clark, Fierrock & Sackett, Inc.
 - The coordinates shown herein are based on NAD Maryland Coordinate as projected by Howard County Geodetic Control Stations No's 2463 Elev. 38460 and 2465 Elev. 38027.
 - The contractor shall notify the Department of Public Works/Division of Construction Inspection at (410) 313-1880 at least twenty-four (24) hours prior to the start of work.
 - The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work.
 - For driveway entrance details, refer to Ho. Co. Design Manual Volume IV details R-6.03 and R-6.05
 - In accordance with Sections 125A.1.b and .c of the Zoning Regulations, bay windows or chimneys not more than 4 feet in width may project not more than 10 feet into any setbacks; porches and decks may project not more than 10 feet into the front or rear setbacks.
 - Stormwater Management is provided per: F-20-50 Anterior Plan.
 - No clearing, grading or construction is permitted within Wetlands and Stream Buffers or Forest Conservation Easements.
 - W-25-02 waives section 10.116(2) which requires a 50' Stream Buffer from an intermittent stream, and section 10.120(2) which prohibits direct access from arterial highways or major collector roads from a residential lot.
- SPECIAL NOTES:**
- This plan is for house siting and lot grading only. Improvements shown within the rights-of-way on this S.D.P. are not to be used for construction. For construction, see approved Road Construction Plans F-20-50 and/or approved Water and Sewer Plans Contract # 24-3486-D

SHEET INDEX

DESCRIPTION	SHEET NO.
SITE DEVELOPMENT PLAN	1 of 3
SEDIMENT AND EROSION CONTROL PLAN	2 and 3 of 3

MINIMUM LOT SIZE CHART

LOT NUMBER	GROSS AREA	PIPESTEM AREA	REMAINING AREA	100 YEAR FLOODPLAIN	25% SLOPES	MINIMUM LOT SIZE
1	12,172 SF	1,987 SF	10,185 SF	0	0	10,185 SF
5	13,104 SF	1,531 SF	11,573 SF	0	0	11,573 SF
6	11,878 SF	1,539 SF	10,339 SF	0	0	10,339 SF
9	8,487 SF	1,335 SF	7,152 SF	0	0	7,152 SF
10	2,201 SF	1,340 SF	861 SF	0	0	861 SF
16	11,502 SF	1,085 SF	10,417 SF	0	0	10,417 SF

OWNER / DEVELOPER
 BRICKHOUSE ON THE PIKE LLC
 90 LANDSOURCE DEV. CORP.
 10480 LITTLE PATUXENT PKWY
 SUITE 500
 COLUMBIA, MARYLAND 21044

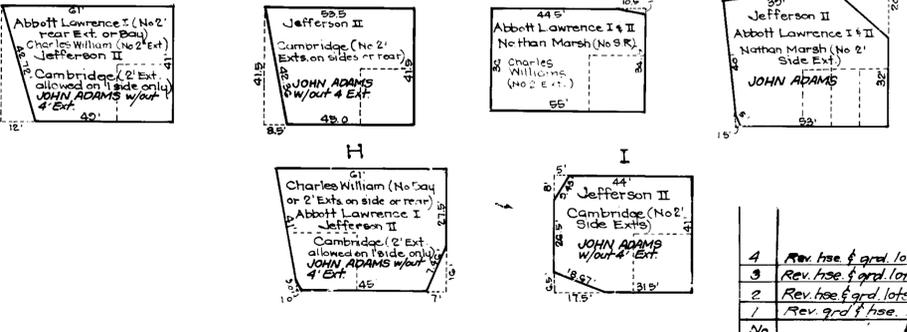
SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
BRICKHOUSE ON THE PIKE		1-11 & 13-20
PLAT NO.	BLOCK NO.	ZONE
12146-12148	3	R-ED
TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
24	2ND	6022
WATER CODE	SEWER CODE	
F-14	592000	

APPROVED
 PLANNING BOARD
 OF HOWARD COUNTY
 DATE: MAY 9, 1996
 CAH



APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division: 7/2/96
 Chief, Division of Land Development and Research: 7/2/96
 Director: 7/2/96



REVISIONS

No.	REVISIONS	Date
4	Rev. hse. & grad. lots 10 & 19	10-30-97
3	Rev. hse. & grad. lot 8. Add hse. typical	10-29-97
2	Rev. hse. & grad. lots 5 & 16, per As-Built Conditions	7-1-97
1	Rev. grad. & hse. lot 15	5-9-96

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 • BALTO. • (301) 621-8100 • WASH.

SITE DEVELOPMENT PLAN
BRICKHOUSE ON THE PIKE
 LOTS 1 THRU 11 AND 13 THRU 20
 TAX MAP 24 PARCEL 810
 SECOND (2nd) ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

FOR: HARVARD HOMES
 9017 RED BRANCH RD. SUITE 201
 COLUMBIA, MARYLAND 21045

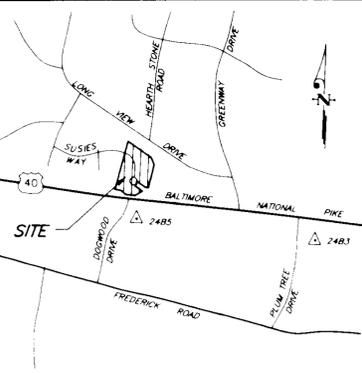
SCALE: 1" = 30'
 DRAWING: 1 of 3
 JOB NO.: 96-053
 FILE NO.: 96-053X

DATE: 5-31-96

SEDIMENT TRAP NO. 2 (ST-2)
 Drainage Area = 3.3 Ac.
 Storage Required = 11880 c.f.
 Wet Storage Req'd = 5040 c.f.
 Wet Storage Provided = 5085 c.f.
 Wet Storage Depth = 3'
 Bottom Elev. = 380.0
 Bottom Dim. = 15' x 80'
 Dry Storage Req'd = 5040 c.f.
 Dry Storage Provided = 6510 c.f.
 Dry Storage Depth = 2'
 Top Wet Storage Elev. = 383.0
 Top Dry Storage Elev. = 385.0
 Top of Embankment = 386.0
 Top of Stone Crest El. = 385.0
 Water Width = 13'
 Total Storage Provided = 12495 c.f.

NOTE: Existing Sediment Traps No. 1 & 2 per F-26-5G to be utilized!

SEDIMENT TRAP NO. 1 (ST-1)
 Drainage Area to Trap = 3.9 Ac.
 Wet Storage Req'd = 7020 c.f.
 Wet Storage Provided = 7056 c.f.
 Wet Storage Depth = 4'
 Dry Storage Req'd = 7020 c.f.
 Dry Storage Provided = 8060 c.f.
 Dry Storage Depth = 2.5'
 Clean Out El. = 384.0
 Storage Depth Below Riser-Crest = 6.5'
 Barrel Diam. = 21"
 Riser Diam. = 24"
 Trash Rack Diam. = 36"
 Top of Embankment = 380.0
 Bottom Elev. = 382.0
 Top of Wet Storage El. = 386.0
 Top of Dry Storage = 388.5
 Bottom Dimension = 10' x 90'



VICINITY MAP
 SCALE: 1" = 2,000'

LEGEND
 Contour Interval 2 Ft.
 Proposed Contour ---
 Existing Contour - - -
 Spot Elevation +485
 Direction of Drainage
 Silt Fence -S-S-
 Stabilized Construction Entrance w/ Mountable Berm
 Earth Dike ED A-2
 Limit of Disturbance L.O.D.

CONSTRUCTION SEQUENCE

No.	Description	No. of days
1.	Obtain a grading permit.	7
2.	Remove excess sediment and refurbish existing traps 1 and 2.	7
3.	Install sediment and erosion control devices and stabilize.	14
4.	Excavate for foundations, rough grade and temporarily stabilize.	30
5.	Construct structures, paving, sidewalks and driveways.	60
6.	Final grade and stabilize in accordance with Stds. and Specs.	14
7.	Upon approval of the sediment control inspector, remove sediment and erosion control devices and stabilize.	7

*Delay construction of houses on lots 1, 2, and 20
 See single lot sediment control detail, this sheet.

Reviewed for HOWARD S.C.D. and meets technical requirements
 Signature: [Signature] Date: 6/10/96
 U.S. Natural Resources Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
 Approved: [Signature] Date: 6/10/96
 MAY 9, 1996
 C.H.

OWNER / DEVELOPER
 BRICKHOUSE ON THE PIKE LLC
 c/o LANDSOURCE DEV CORP
 10480 LITTLE PATUXENT PKWY
 SUITE 500
 COLUMBIA, MARYLAND 21044

SUBDIVISION NAME	SECTION/AREA	LOTS/PARCELS
BRICKHOUSE ON THE PIKE		1-11 & 13-20
PLAT NO.	BLOCK NO.	ZONE
12146-1248	3	R-ED
TAX MAP NO.	ELECTION DIST.	CENSUS TRACT
24	2ND	6022
WATER CODE	SEWER CODE	
F-14	5020000	

NOTE: Delay house construction on Lots 1, 2 and 20.

DEVELOPER'S/BUILDER'S CERTIFICATE
 I/We certify that all development and construction will be done according to this plan of development and 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 or their authorized agents, as are deemed necessary.
 [Signature] Date: 3-18-96

ENGINEER'S CERTIFICATE
 I hereby certify that this plan for Sediment and Erosion 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] Date: 3/18/96
 Jeffrey Lynn Schwab

APPROVED: DEPARTMENT OF PLANNING AND ZONING
 [Signature] Date: 6/13/96
 Chief, Development Engineering Division
 [Signature] Date: 7/2/96
 Chief, Division of Land Development and Research
 [Signature] Date: 7/2/96
 Director

CLARK • FINEFROCK & SACKETT, INC.
 ENGINEERS • PLANNERS • SURVEYORS
 7135 MINSTREL WAY • COLUMBIA MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH

DESIGNED ZAL	SEDIMENT AND EROSION CONTROL PLAN BRICKHOUSE ON THE PIKE LOTS 1 THRU 11 AND 13 THRU 20 TAX MAP 24 PARCEL 810 SECOND (2nd) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	SCALE 1"=30'
DRAWN [Signature]		DRAWING 2 of 3
CHECKED [Signature]		JOB NO. 96-053
DATE 3-18-96		FILE NO. 96-0539

FOR HARVARD HOMES
 2017 RED BRANCH RD - SUITE 201
 COLUMBIA, MARYLAND 21045

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS DESIRED.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing 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./100 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 30-0-0 ureaform fertilizer (9 lbs./1000 sq.ft.).
- 2) Acceptable—Apply 2 tons per acre dolomitic limestone (92 lbs./1000 sq.ft.) and apply 1000 lbs. per acre 10-10-10 fertilizer (23 lbs./1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil.

SEEDING: For the periods March 1 thru April 30, and August 1 thru October 15, seed with 80 lbs. per acre (1.4 lbs./1000 sq.ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (.05 lbs./1000 sq.ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) 2 tons per acre well anchored straw mulch and seed as soon as possible in the spring. Option (2) Use sod. Option (3) Seed with 60 lbs./acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq. ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

MAINTENANCE: Inspect all seeded areas and make needed repairs, replacements and reseedings.

TEMPORARY SEEDING NOTES

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, discing 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 from August 15 thru November 15, seed with 2 1/2 bushel per acre of annual ryegrass (3.2 lbs./1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.7 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, or use sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sq.ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sq.ft.) for anchoring.

REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

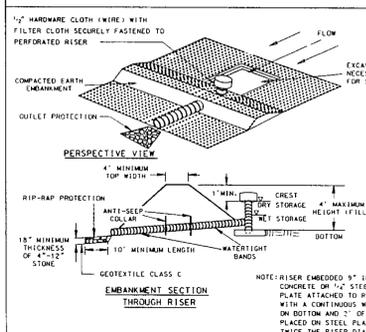
SEDIMENT AND EROSION CONTROL NOTES

1. A minimum of 24 hours notice must be given to the Howard County Office of Inspection and Permits prior to the start of any construction. (313-1855)
2. All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the 1994 MARYLAND STANDARDS AND SPECS. FOR SOIL EROSION AND SEDIMENT CONTROL.
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 as to all other disturbed or graded areas on the project site.
4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeters in accordance with Vol. 1, Chapter 12, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
5. All disturbed areas must be stabilized within the time period specified above, in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for permanent seedings (Sec. 51), Sod (Sec. 54), temporary seedings (Sec. 50) and mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
7. SITE ANALYSIS:

Total Area of Site:	4.25 AC
Area Disturbed:	4.21 AC
Area to be roofed or paved:	1.08 AC
Area to be vegetatively stabilized:	3.13 AC
Total Cut:	5000 CY
Total Fill:	3000 CY
Offsite Waste/Borrow Area Location:	#1
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 control must be provided, if deemed necessary by the Howard County DPW 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. The total amount of silt fence = 295 L.F.

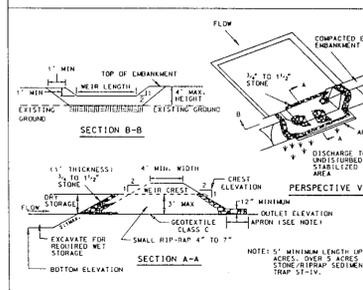
* It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

DETAIL 8 - PIPE OUTLET SEDIMENT TRAP - ST I



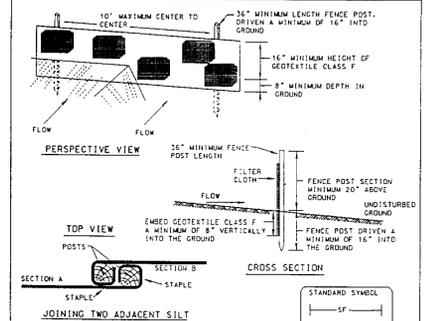
- Construction Specifications
1. The area under the embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
 2. The fill material for the embankment shall be free of roots or other woody vegetation as well as oversized stones, rocks, organic material, or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. The total trap volume as measured from the bottom to riser crest elevation shall be 3600 cubic feet per acre of discharge area (see Table 3). The top of embankment must be at least 1' above the riser crest elevation.
 4. Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap (3600 cu. ft.). The sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 5. The structure shall be inspected periodically and after each rain and repairs made as necessary.
 6. Construction operations shall be carried out in such a manner that erosion and water pollution are avoided. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentrated inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes shall be stabilized (see Table 1) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.
 7. The structure shall be removed and area stabilized when the discharge area has been properly stabilized.
 8. All cut and fill slopes shall be 2:1 or flatter.
 9. All pipe connections shall be watertight.
 10. Above the wet storage elevation, the riser shall be perforated with 1/2" wide by 6" long slots or 1" diameter holes spaced 6" vertically and horizontally. No perforations will be allowed within 6" of the bottom of the riser.
 11. The filter shall be wrapped with 1/2" hardware cloth twice then wrapped with Geotextile Class C. The filter cloth shall extend 6" above the highest sill and 6" below the lowest sill. Where ends of filter cloth come together, they shall be overlapped, folded and fastened to prevent bypass. Filter cloth shall be replaced as necessary to prevent clogging.
 12. Straps or connecting bands shall be used to hold the filter cloth and wire fabric in place. They shall be placed at the top and bottom of the cloth.
 13. Fill material around the pipe shall be hand compacted in 4" layers. A minimum of 2' of non-compacted backfill shall be placed over the pipe spillway before grading it with construction equipment.
 14. The riser shall be anchored with either a concrete base or steel plate base to prevent flotation. Concrete bases shall be at least twice the riser diameter and 12" deep with the riser embedded 9". Steel plate bases shall be at least twice the riser diameter, 1/2" minimum thickness and attached to the bottom of the riser by a continuous weld to form a watertight connection. Then place 2' of stone, gravel or topped earth on the plate.
 15. Anti-seep collars shall be constructed in accordance with plans (ref. Table 16 and Details 13 and 14).
 16. Concentric trash rack and anti-vortex device design details are on Detail 16.
 17. Refer to Section D for dewatering requirements of sediment traps.
 18. Outlet - An outlet shall be provided, which includes a means of conveying the discharge in an erosion free manner to an existing stable channel.
 19. Where discharge occurs at the property line, local ordinances and drainage easement requirements shall be met.

DETAIL 9 - STONE OUTLET SEDIMENT TRAP - ST II



- Construction Specifications
1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The soil area shall be cleared.
 2. The fill material for the embankment shall be free of roots and other woody vegetation as well as over-sized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.
 3. All cut and fill slopes shall be 2:1 or flatter.
 4. The stone used in the outlet shall be small rip-rap 4" to 12" in size with a 1" thick layer of 3/4" to 1 1/2" washed aggregate placed on the upstream face of the outlet. Stone facing shall be as necessary to prevent clogging. Geotextile Class C may be substituted for the stone facing by placing it on the inside face of the stone outlet.
 5. Sediment shall be removed and trap restored to its original dimensions when the sediment has accumulated to one half of the wet storage depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 6. The structure shall be inspected periodically and after each rain and repairs made as needed.
 7. Construction of traps shall be carried out in such a manner that sediment pollution is avoided. Once constructed, the top and outside face of the embankment shall be stabilized with seed and mulch. Points of concentration of inflow shall be protected in accordance with Grade Stabilization Structure criteria. The remainder of the interior slopes shall be stabilized (see Table 1) with seed and mulch upon trap completion and monitored and maintained erosion free during the life of the trap.
 8. The structure shall be dewatered by approved methods. removed and the area stabilized when the discharge area has been properly stabilized.
 9. Refer to Section D for specifications concerning trap dewatering.
 10. Minimum trap depth shall be measured from the weir elevation.
 11. The elevation of the top of any dike directing water into the trap must equal or exceed the elevation of the trap embankment.
 12. Geotextile Class C shall be placed over the bottom and slope of the outlet channel or to the discharge area. Section of filter cloth must overlap at least 1' with the section nearest the entrance placed on top. The filter cloth shall be secured at least 6" into existing ground at the entrance of the outlet channel.
 13. Outlet - An outlet shall be provided, including a means of conveying the discharge in an erosion free manner to an existing stable channel.

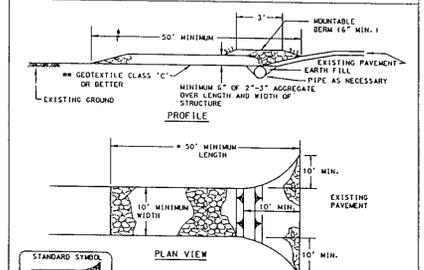
DETAIL 22 - SILT FENCE



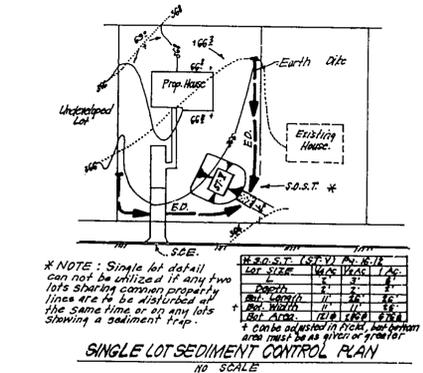
- Construction Specifications
1. Fence posts shall be a minimum of 3/4" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square minimum size or 1 1/2" diameter (minimum round) and shall be of sound quality hardwood. Steel posts will be standard 2" or 3" diameter pipe or U section weighing not less than 100 pounds per linear foot.
 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: ASTM 509
Tensile Modulus	20 lbs/in (min.)	Test: ASTM 509
Flow Rate	0.3 gal/100 sq ft/min (max.)	Test: ASTM 322
Filtering Efficiency	75% (min.)	Test: ASTM 322
 3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
 4. Silt fence shall be inspected after each rainfall event and maintained when needed or when sediment accumulation reaches 50% of the fabric height.

DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



- Construction Specifications
1. Length - minimum of 50' (50' for single residence lots).
 2. Width - 10' minimum should be flared at the existing grade to provide a turning radius.
 3. Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require a single family residence to use geotextile.
 4. Stone - crushed aggregate (2" to 3") or recycled or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
 5. Surface water - all surface water flowing to or diverted toward construction entrances shall be placed through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the discharge. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
 6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

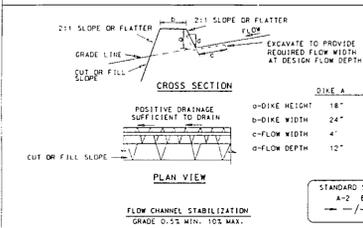


DEVELOPER'S/BUILDER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan of development and 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 or their authorized agents, as are deemed necessary.

David J. Fisher 3-18-96 Date

DETAIL 1 - EARTH DIKE



- Construction Specifications
1. All temporary earth dikes shall have unintercepted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.
 2. Runoff diverted from a disturbed area shall be conveyed to a sediment trapping device.
 3. Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.
 4. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.
 5. The dike shall be excavated or spaced to line, grade and cross section as required to meet the criteria specified herein and be free of blemishes or other irregularities which will impede normal flow.
 6. Fill shall be compacted by earth moving equipment.
 7. All earth removed and not needed for construction shall be placed so that it will not interfere with the functioning of the dike.
 8. Inspection and maintenance must be provided periodically and after each rain event.

2010 STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

Definition
Placement of topsoil over a prepared subsol prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetable growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- a. This practice is limited to areas having 2:1 or flatter slopes where:
 - i. The texture of the exposed subsol/parent material is not adequate to produce vegetative growth.
 - ii. 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.
 - iii. The original soil to be vegetated contains material toxic to plant growth.
 - iv. The soil is so acidic that treatment with limestone is not feasible.
- ii. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

1. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USDA-SCS in cooperation with Maryland Agricultural Experimental Station.
- ii. Topsoil Specifications - Soil to be used as topsoil must meet the following:
 - i. 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 not be a mixture of contrasting textured subsols 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" in diameter.
 - ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, thistle, or others as specified.
 - iii. Where the subsol is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- iii. For sites having disturbed areas under 5 acres:
 - i. Place topsoil (if required and apply soil amendments as specified in 2010 Vegetative Stabilization - Section 4 - Vegetative Stabilization Methods and Materials.

V. Topsoil Application

- i. When topsoiling, maintain needed erosion and sediment control practices such as diversions, Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.
- ii. Grades on the areas to be topsoiled, which have been previously established, shall be maintained, albeit 4" - 8" higher in elevation.
- iii. Topsoil shall be uniformly distributed in a 4" - 6" layer and lightly compacted to a minimum thickness of 4". Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tillage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions or water pockets.
- iv. Topsoil shall not be placed while the topsoil or subsol is in a frozen or muddy condition. When the subsol is excessively wet or in a condition that may otherwise be detrimental to proper grading and seedbed preparation.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

Chief, Development Engineering Division 6/15/96 Date

Jim Zimmerman 7/2/96 Date

Director 7/2/96 Date

ENGINEER'S CERTIFICATE

I hereby certify that this plan for Sediment and Erosion 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.

Jeffrey Lynn Schwab 3/18/96 Date

CLARK • FINEROCK & SACKETT, INC.
ENGINEERS • PLANNERS • SURVEYORS
7135 MINTREL WAY • COLUMBIA, MD 21045 • (410) 381-7500 BALTO • (301) 621-8100 WASH

DESIGNED ZAL	SEDIMENT & EROSION CONTROL DETAILS	SCALE ---
DRAWN ED		DRAWING 3 of 3
CHECKED EDS	BRICKHOUSE ON THE PIKE LOTS 1-II AND 13-20 TAX MAP 24 PARCEL 810 SECOND (2ND) ELECTION DISTRICT HOWARD COUNTY, MARYLAND	JOB NO 96-053
DATE 3-18-96		FOR: HARVARD HOMES 3017 RED BRANCH ROAD, SUITE 201 COLUMBIA, MARYLAND 21045

SDP 96-111