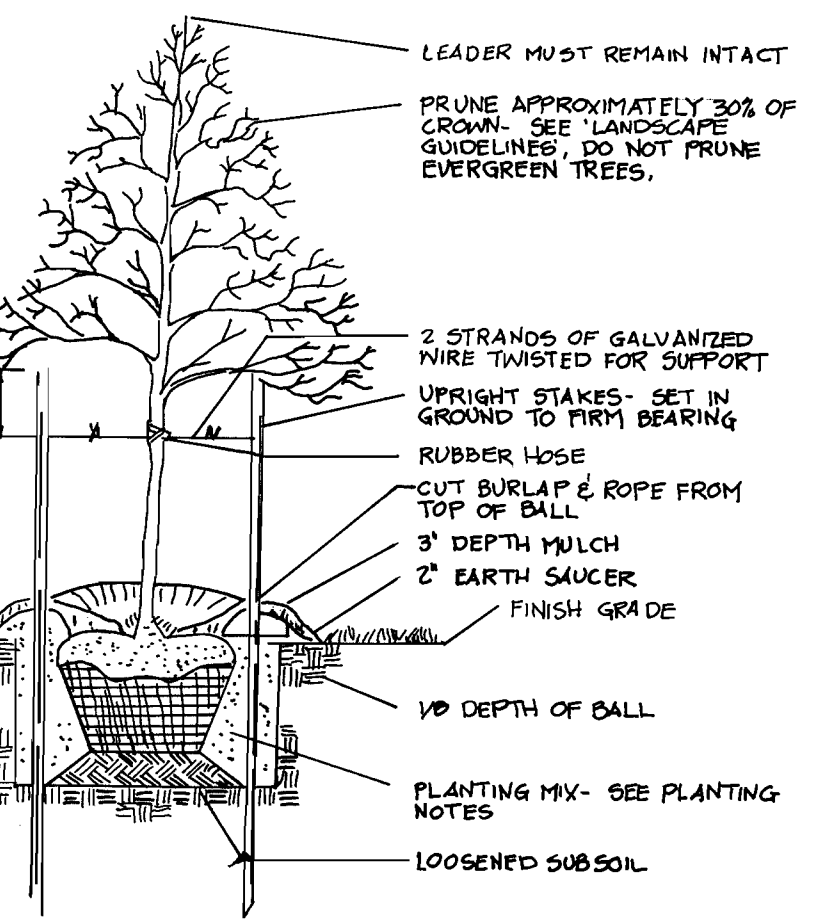


NOTES

- SEE "LANDSCAPE SPECIFICATION GUIDELINES" FOR BALTIMORE-WASHINGTON METROPOLITAN AREA FOR ALL MATERIAL PRODUCT, AND PROCEDURE SPECIFICATIONS.
- SEE "LANDSCAPE GUIDELINES" FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIPER.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK.
- SEE ARCHITECTURAL PLANS FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWER EASEMENT.



TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIPER

NOT TO SCALE

SCHEDULE A PERIMETER LANDSCAPE EDGE

LANDSCAPE EDGE	(1)	(2)	(3)	(4)
LANDSCAPE TYPE	A	A	A	A
LINEAR FEET OF PERIMETER	279	129	274	206
CREDIT FOR EXISTING VEGETATION (YES, NO LINEAR FEET)	70	129	160	80
NUMBER OF PLANTS TO BE PROVIDED	4	0	2	2
SHADE TREES (1:60)				
NUMBER OF PLANTS REQUIRED	4	0	2	2
SHADE TREES (1:60)				

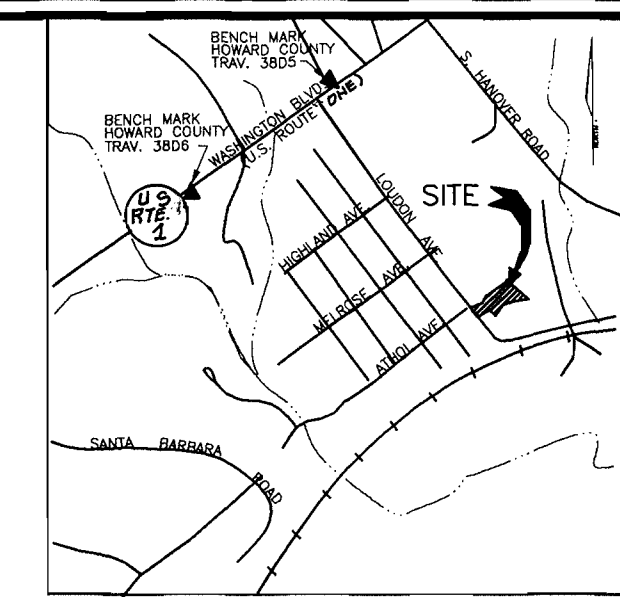
The plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code. The Landscape Manual Formally Survey for the required B Landscape Trees has been posted as part of the Grading Permit as follows:

NO GRAVITY SEWER SERVICE. PRIVATE ON SITE SEWER PUMPING UNIT REQUIRED (LOTS 2 & 3).

Lot 1 - 1 Shade = \$200.00
 Lot 2 - 1 Shade = \$300.00
 Lot 3 - 4 Shade = \$1200.00
 Lot 4 - 2 Shade = \$600.00
 Total Surety = \$2400.00

LEGEND

- Existing Contour: --- 382
- Proposed Contour: --- +82.53
- Spot Elevation: (circle with number)
- Direction of Flow: (arrow)
- Tree Protection Fence: (dashed line with 'X' marks)
- Existing Trees to Remain: (cloud-like outline)
- Limit of Disturbance: (dashed line)
- Stabilized Construction Entrance: (hatched area)
- Silt Fence: (line with 'S' marks)
- DRY WELL: (square with 'X' in center)



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 - MISS UTILITY: 1-800-257-7777
 - BELL ATLANTIC TELEPHONE COMPANY: 725-9976
 - HOWARD COUNTY BUREAU OF UTILITIES: 313-2366
 - AT&T CABLE LOCATION DIVISION: 393-3555
 - B.G. & CO. CONTRACTOR SERVICES: 850-4620
 - B.G. & CO. UNDERGROUND DAMAGE CONTROL: 787-4620
 - STATE HIGHWAY ADMINISTRATION: 531-5533
- SITE ANALYSIS:
 - AREA OF SITE: 11.144 AC
 - AREA OF SUBMISSION: 11.144 AC
 - PRESENT ZONING: R-12
 - LIMIT OF DISTURBANCE: 0.86 AC
 - PROPOSED USE OF SITE: SINGLE FAMILY DWELLINGS
 - TOTAL NUMBER OF UNITS: 4
- PROJECT BACKGROUND:
 - LOCATION: TAX MAP: 38 PARCEL: 213
 - ZONING: R-12
 - SUBDIVISION: PROFFEN PROPERTY
 - DPZ REFERENCES: F-99-85
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM A FIELD SURVEY AND AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES.
- SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOILS TEST.
- FEE-IN-LIEU OF STORMWATER MANAGEMENT QUANTITY WAS PROVIDED UNDER F-99-85. DRY WELL WILL BE PROVIDED FOR WATER QUALITY.
- COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 38R2 AND 38R3 (NAD 83) 38R2 N 557,500.663 E 391,227.052 ELEV. 169.78 38R3 N 557,417.923 E 391,983.171 ELEV. 124.65
- EXISTING TOPOGRAPHY IS BASED ON PLANS PREPARED BY SHANBERGER & LANE DATED APRIL, 1998.
- LOTS 2 & 3 WILL HAVE ON-SITE PRIVATE PUMPING UNITS.
- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES TO RESIDENTS' PREMISES.
 - A) WIDTH - 12 FEET FOR SINGLE, 14 FEET FOR DRIVEWAYS SERVING MORE THAN 2 LOTS.
 - B) SURFACE SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1/2" MINIMUM).
 - C) GEOMETRY - MAXIMUM 10% GRADE, MAXIMUM 10% GRADE CHANGE AND 6' FOOT TURNING RADIUS.
 - D) STRUCTURES (BRIDGES/CULVERTS) - CAPABLE OF SUPPORTING 25 GROSS TONS (25-TONS-LONG).
 - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 - F) STRUCTURE CLEARANCES - MINIMUM 12 FEET.
 - G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- A FEE - IN LIEU OF OPEN SPACE IN THE AMOUNT OF \$3,000.00 HAS BEEN PROVIDED.
- THIS PLAN HAS BEEN REVIEWED BY THE MARYLAND AVIATION ADMINISTRATION, PERMIT NO. 99-127 AND APPROVED NOVEMBER 9, 1999.

OWNER: KEITH & DELEAH PROFFEN, 6451 LOUDON AVE, ELKCRIDGE, MD, 21075

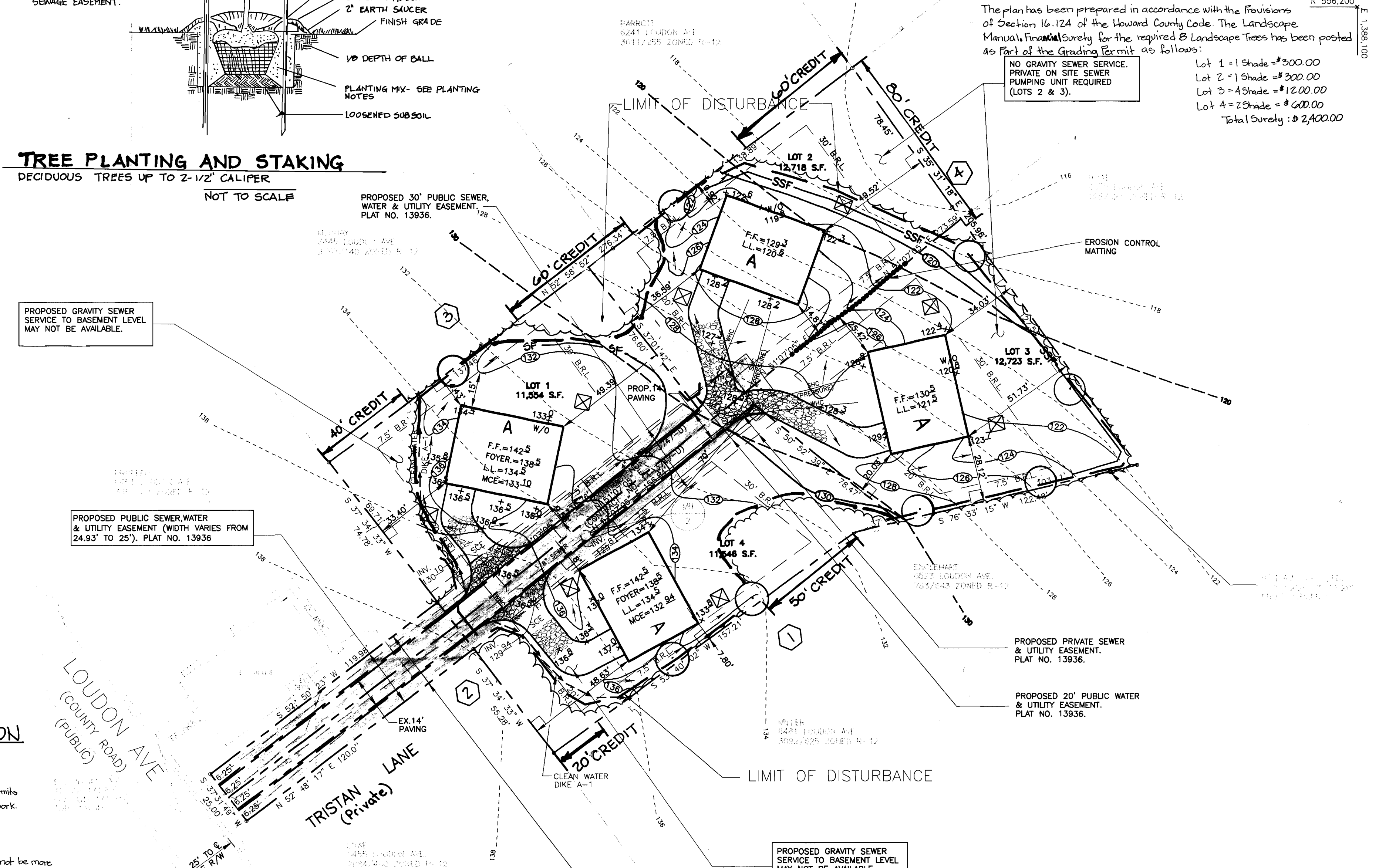
DEVELOPER / CONTRACT PURCHASER: MAIN STREET BUILDERS, 5705 LANDING ROAD, ELKCRIDGE, MD, 21075, 410-744-6738

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Bureau of Inspections and Permits (313-1880) at least 24 hours before starting any work.
- Construct Stabilized Construction Entrances.
- Install silt fence & super silt fence.
- Rough grade site.
- Construct house. The first floor elevation cannot be more than 1" higher or 0.2' lower than the elevations shown on this plan. The foundation footprint must be within the generic block.
- Final lot grade to be in substantial conformance with site development plan.
- During grading and after each rainfall, the contractor shall inspect and provide the necessary maintenance on the sediment erosion control measure shown hereon.
- Following initial soil disturbance or redistribution permanent or temporary stabilization shall be complied on the sediment erosion control measures shown with:
 - A. 7 calendar days for all perimeter sediment control structures, dikes, swales, ditch perimeter slopes and all slopes greater than 2:1.
 - B. 14 calendar days for all other disturbed areas.
- Upon stabilization of all disturbed areas and with the approval of the sediment control inspector, remove all sediment control devices.

LOUDON AVE (PUBLIC)

TRISTAN LANE (Private)



PROPOSED PUBLIC SEWER, WATER & UTILITY EASEMENT (WIDTH VARIES FROM 24.93' TO 25'). PLAT NO. 13936

PROPOSED PRIVATE SEWER & UTILITY EASEMENT. PLAT NO. 13936

PROPOSED 20' PUBLIC WATER & UTILITY EASEMENT. PLAT NO. 13936

PROPOSED GRAVITY SEWER SERVICE TO BASEMENT LEVEL MAY NOT BE AVAILABLE.

PROPOSED PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 1 TO 4 (L3357, F97) PLAT NO. 13936 (PROFFEN PROPERTY F813)

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 CERTIFICATION OF LANDSCAPE INSTALLATION, ACCOMPANIED BY AN EXECUTED ONE (1) YEAR GUARANTEE OF PLANT MATERIALS, WILL BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND ZONING.

Joseph E. Inodagan, 2-2-00, DATE, SIGNATURE OF DEVELOPER

SHEET INDEX

NO.	DESCRIPTION	PAGES
1-	SITE DEVELOPMENT PLAN, GRADING AND SEDIMENT CONTROL AND LANDSCAPING PLAN	1 OF 2
2-	DETAIL SHEET	2 OF 2

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
1.	11,554 S.F.	750 S.F.	10,804 S.F.
2.	12,718 S.F.	1,605 S.F.	11,113 S.F.
3.	12,723 S.F.	1,729 S.F.	10,994 S.F.
4.	11,846 S.F.	746 S.F.	10,800 S.F.

ADDRESS CHART

LOT	STREET ADDRESS
1.	6505 TRISTAN LANE (PRIVATE)
2.	6509 TRISTAN LANE (PRIVATE)
3.	6508 TRISTAN LANE (PRIVATE)
4.	6504 TRISTAN LANE (PRIVATE)

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.

John R. Rolston, 1/19/00, DATE, SIGNATURE OF HOWARD SOIL CONSERVATION DISTRICT

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Rolston, 1/19/00, DATE, SIGNATURE OF HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, 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.

Joseph E. Inodagan, 1-05-00, DATE, SIGNATURE OF DEVELOPER

TREE SCHEDULE

NAME	SIZE	NUMBER
ACER RUBRUM-OCTOBER GLORY RED MAPLE	2 1/2" - 3 CAL.	8

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Robert H. Vogel, 1/4/00, DATE, SIGNATURE OF ENGINEER

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Jeffrey K. Hamilton, 2/3/00, DATE, DIRECTOR

Candy Hamilton, 2/4/00, DATE, CHIEF, DIVISION OF LAND DEVELOPMENT

Robert H. Vogel, 1/4/00, DATE, CHIEF, DEVELOPMENT ENGINEERING DIVISION

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN GRADING AND SEDIMENT CONTROL AND LANDSCAPE PLAN PROFFEN PROPERTY LOTS 1 TO 4

TAX MAP #38 BLOCK 14 PARCEL '213'
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
 ENGINEERS/SURVEYORS/PLANNERS

3681 Park Avenue, Suite 101 • Elkott City, Maryland 21043
 Tel 410.461.5828 Fax 410.465.3966

DESIGN BY: T. R.
 DRAWN BY: T. R.
 CHECKED BY: J. C. O.
 DATE: JAN, 2000
 SCALE: 1" = 30'
 W.O. NO.: 96-019

1 SHEET 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, 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./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 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 60 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 unwrapped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 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 reseeding.

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 rye (3.2 lbs./1000 sq.ft.) For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.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, or use sod.

MULCHING: Apply 1 1/2 to 2 tons per acre (70 to 90 lbs./1000 sq.ft.) of unwrapped small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 2 1/2 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 CONTROL NOTES

1. A minimum of 48 hours notice must be given to the Howard County Department of Inspection, License and Permits Sediment Control Division prior to the start of any construction (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 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 perimeter in accordance with Vol. 1, 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	11144 Acres
Area Disturbed	0.856 Acres
Area to be roofed or paved	0.126 Acres
Area to be vegetatively stabilized	0.7434 Acres
Total Cut	986 CY
Total Fill	220 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 is limited to three pipe lengths or that which shall be back-filled and stabilized within one working day, whichever is shorter.
- * To be determined by contractor, with pre-approval of the Sediment Control Inspector with an approved and active grading permit.

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 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

I. 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 plant nutrients.
- c. The original soil to be vegetated contains material toxic to plant growth.
- d. The soil is so acidic that treatment with limestone is not feasible.

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

I. 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 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" in diameter.

ii. Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.

iii. Where the subsoil 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.

IV. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

ii. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

ii. For sites having disturbed areas under 5 acres:

i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

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i. Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.

ii. For sites having disturbed areas under 5 acres:

- i. On soil meeting topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
 - a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
 - b. Organic content of topsoil shall be not less than 1.5 percent by weight.
 - c. Topsoil having soluble salt content greater than 500 parts per million shall not be used.
 - d. No sod or seed shall 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.
- ii. Place topsoil (if required) and apply soil amendments specified in 20.0 Vegetative Stabilization-Section I-Vegetative Stabilization Methods and Materials.

V. Topsoil Application

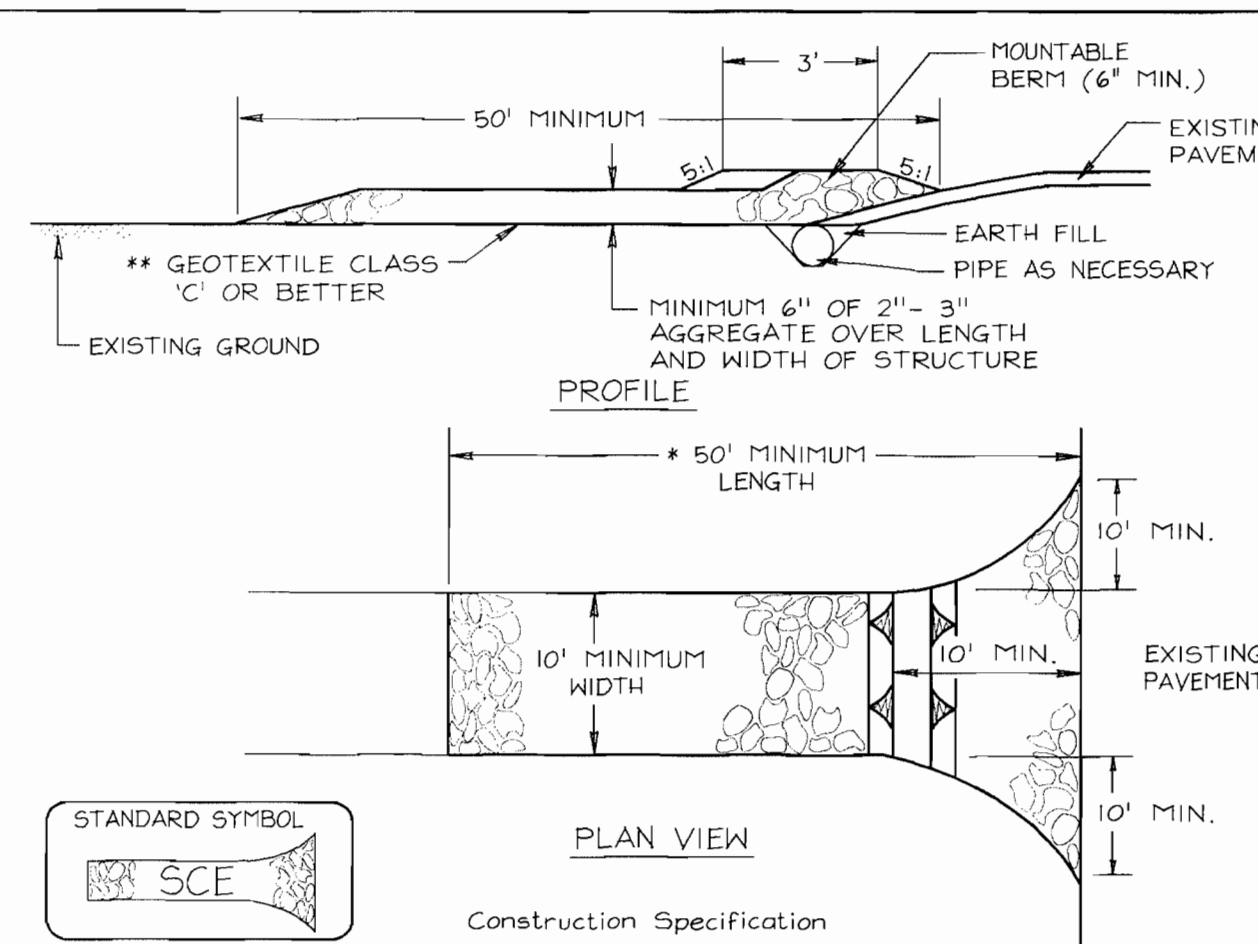
i. When topsoiling, maintain needed erosion and sediment control practices such as diversion Grade Stabilization Structures, Earth Dikes, Slope Silt Fence and Sediment Traps and Basins.

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" - 8" 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 subsoil is in a frozen or muddy condition, when the subsoil is excessively wet or in a condition which may otherwise be detrimental to proper grading and seedbed preparation.

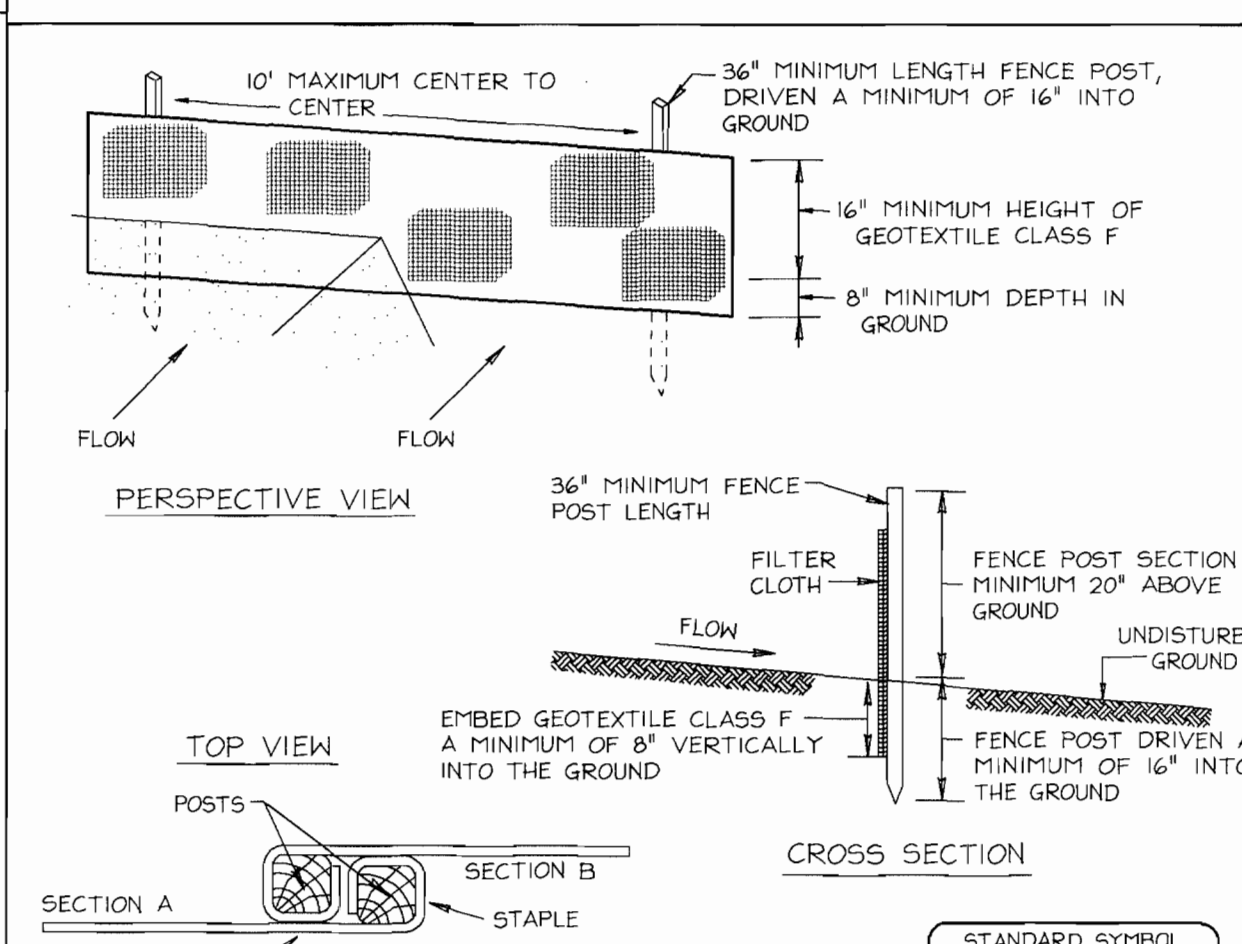
DETAIL 24 - STABILIZED CONSTRUCTION ENTRANCE



1. Length - minimum of 50' (*30' for a single residence lot).
2. Width - 10' minimum, should be flared at the existing road 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 single family residences to use geotextile.
4. Stone - crushed aggregate (2" to 3") or reclaimed 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 piped 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 drainage. When the SCE is located at a high spot and has no drainage to convey, a pipe will not be necessary. Pipe shall 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.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE F-17-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL 22 - SILT FENCE

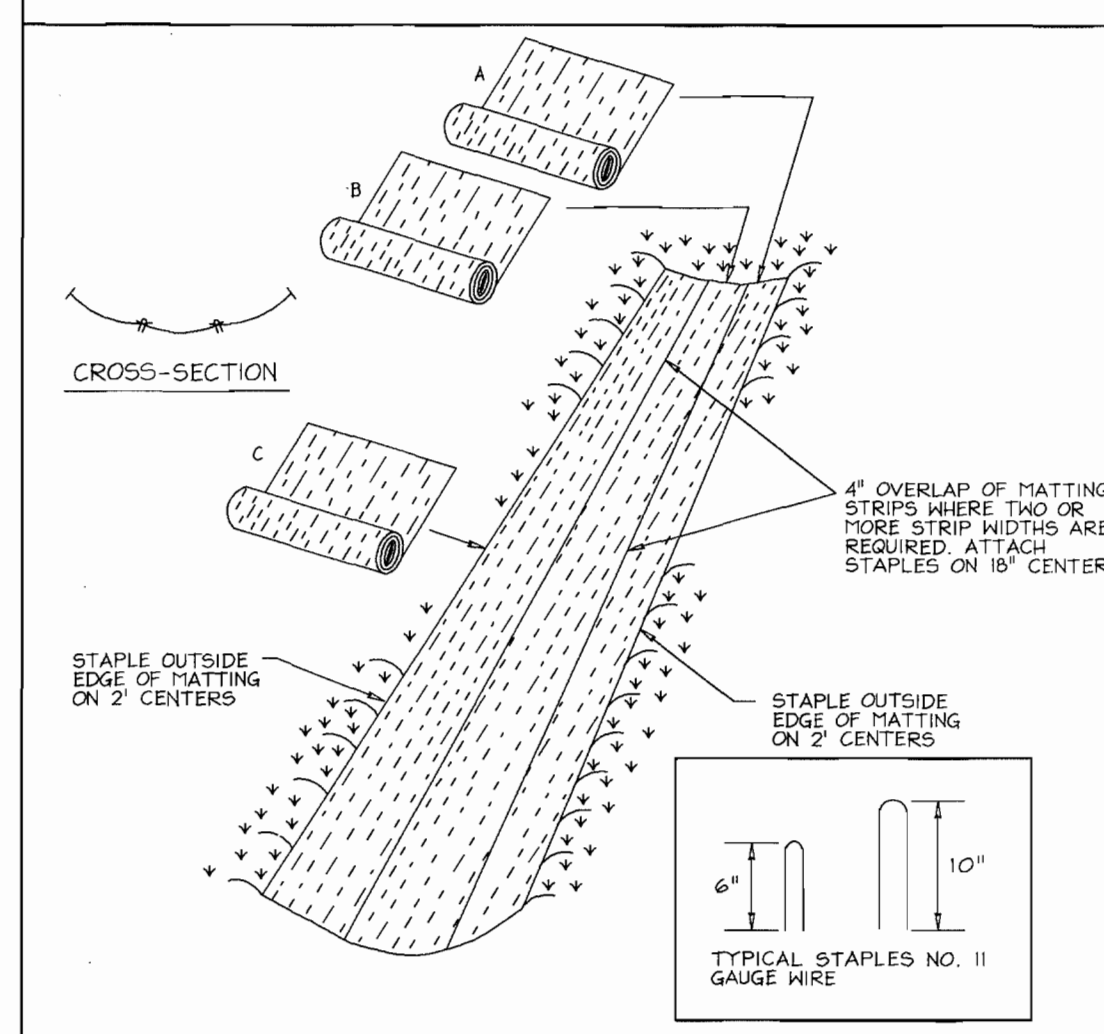


1. Fence posts shall be a minimum of 36" long, driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 1 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighing not less than 1,000 pound per linear 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: MSMT 504
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 504
Flow Rate	0.3 gal/ft ² minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 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 bulges occur or when sediment accumulation reaches 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE E-15-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

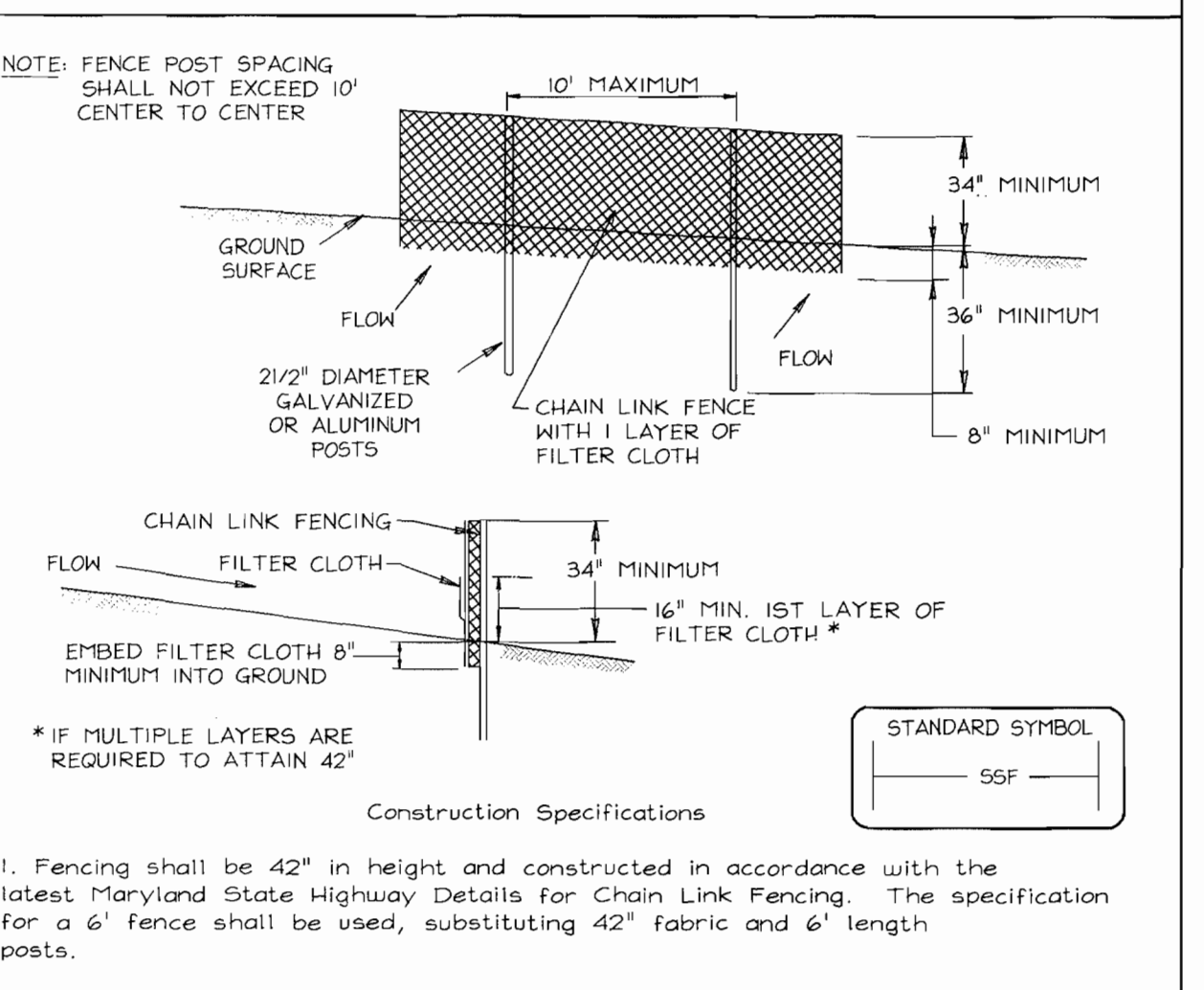
DETAIL 30 - EROSION CONTROL MATTING



1. Key-in the matting by placing the top ends of the matting in a narrow trench, 6" in depth. Backfill the trench and tamp firmly to conform to the channel cross-section. Secure with a row of staples spaced 4' down slope from the trench. Spacing between staples is 6'.
 2. Staple the 4" overlap in the channel center using an 18" spacing between staples.
 3. Before stapling the outer edges of the matting, make sure the matting is smooth and in firm contact with the soil.
 4. Staples shall be placed 2' apart with 4 rows for each strip, 2 outer rows, and 2 alternating rows down the center.
 5. Where one roll of matting ends and another begins, the end of the top strip shall overlap the upper end of the lower strip by 4", shiplap fashion. Reinforce the overlap with a double row of staples spaced 6' apart in a staggered pattern on either side.
 6. The discharge end of the matting liner should be similarly secured with 2 double rows of staples.
- Note: If flow will enter from the edge of the matting then the area effected by the flow must be keyed-in.

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

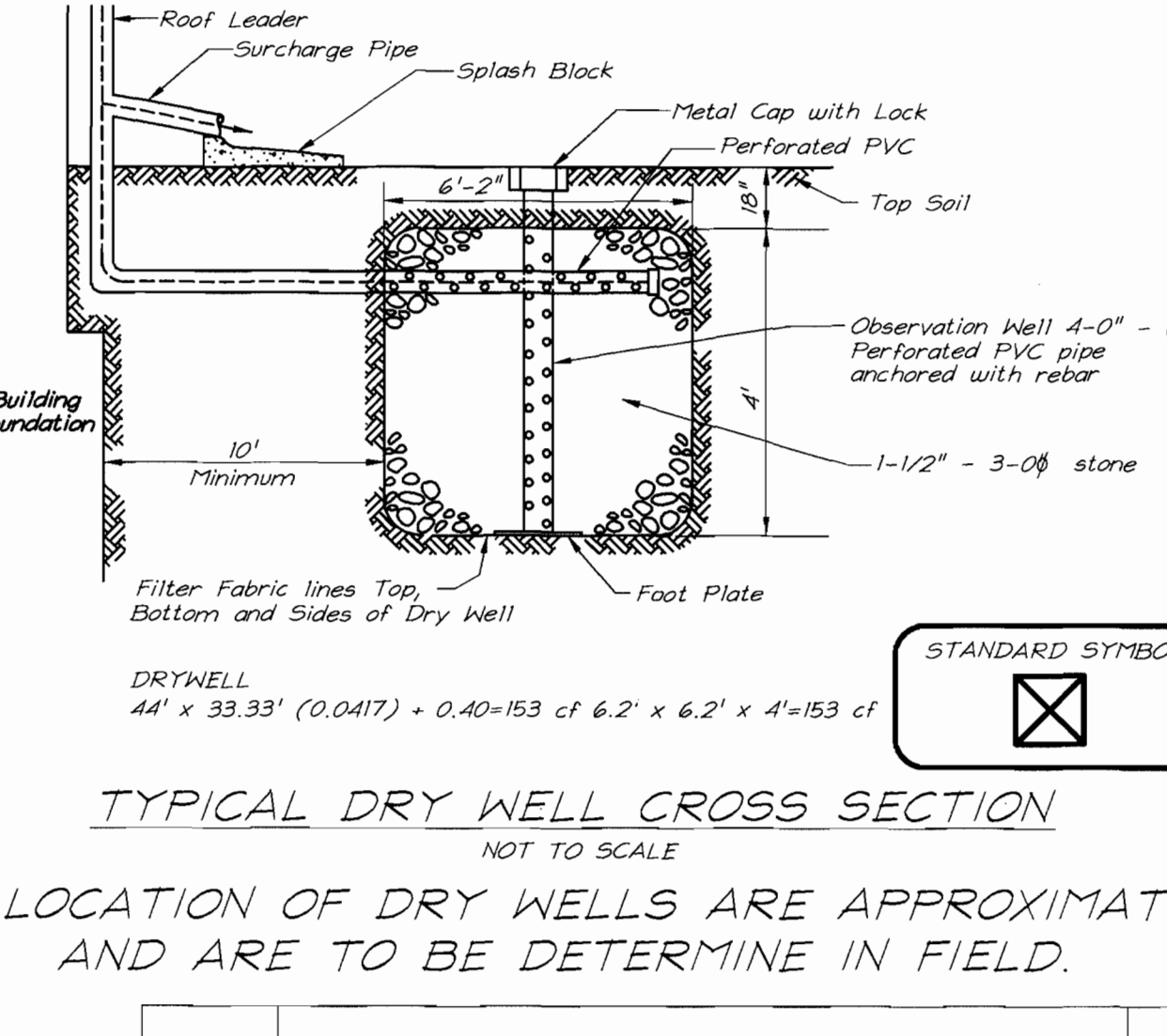
DETAIL 33 - SUPER SILT FENCE



1. Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length posts.
2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence.
3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
4. Filter cloth shall be embedded a minimum of 8" into the ground.
5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded.
6. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height.
7. Filter cloth 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: MSMT 504
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 504
Flow Rate	0.3 gal/ft ² minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 322

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE PAGE H-26-3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION



TYPICAL DRY WELL CROSS SECTION
NOT TO SCALE

LOCATION OF DRY WELLS ARE APPROXIMATE AND ARE TO BE DETERMINE IN FIELD.

NO.	REVISION	DATE

SITE DEVELOPMENT PLAN GRADING AND SEDIMENT CONTROL DETAILS PROFFEN PROPERTY
Lots 1 to 4
TAX MAP #38 BLOCK 14 PARCEL '213'
1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
ENGINEERS-SURVEYORS-PLANNERS
3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
Tel 410.481.5828 Fax 410.485.3966

DESIGN BY: T. R.
DRAWN BY: T. R.
CHECKED BY: J. C. O.
DATE: JAN, 2000
SCALE: 1"=30'
W.O. NO.: 96-019

2 SHEET OF 2

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
DATE: 2/8/00
DATE: 2/4/00
DATE: 1/14/00

ENGINEERS CERTIFICATE
"I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS AN ACCURATE AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT."
SIGNATURE OF ENGINEER: ROBERT H. VOGEL
DATE: 1/4/00

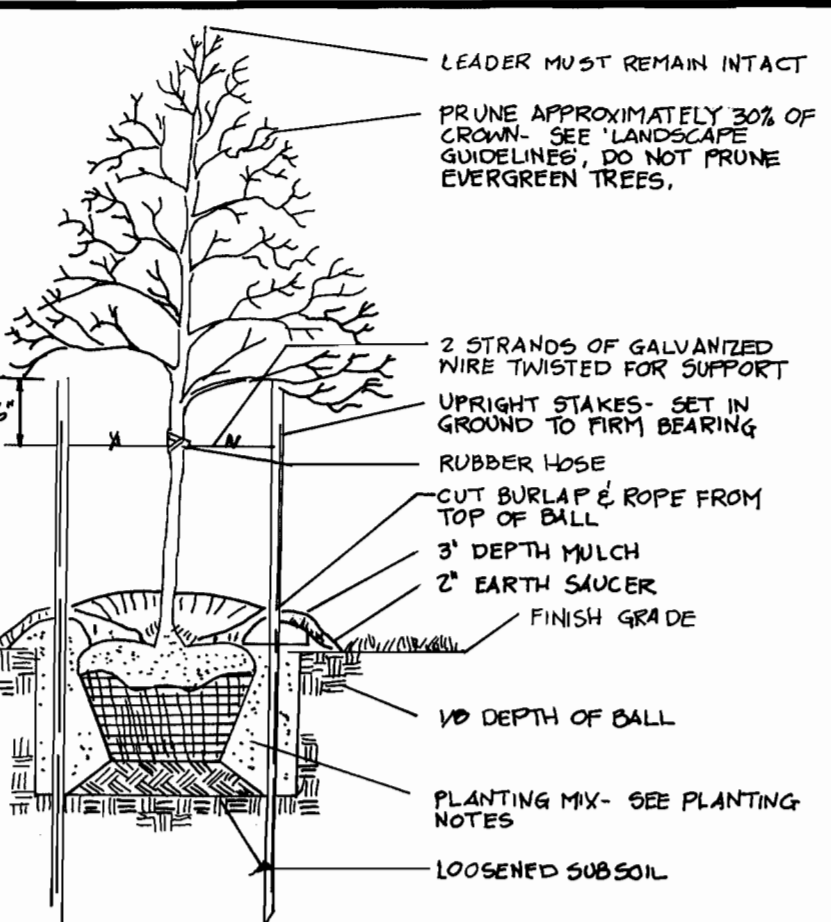
DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT."
SIGNATURE OF DEVELOPER: Joseph E. Johnson
DATE: 1-05-00

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
OWNER: KEITH & DELEAH PROFFEN
DEVELOPER/CONTRACT PURCHASER: MAIN STREET BUILDERS
SUBDIVISIONS NAME: PROFFEN PROPERTY
SECTION/AREA: N/A
LOTS: 1-4
PLAT NO/BLOCK NO./ZONE: 13936/14/R-12
TAX/ZONE ELECT. DIST.: 3B
CENSUS TR.: 1st
WATER CODE: A-02
SEWER CODE: 2151800

DATE: 1/19/00
DATE: 1/19/00

NOTES

- SEE "LANDSCAPE SPECIFICATION GUIDELINES FOR BALTIMORE-MASHINGTON METROPOLITAN AREAS" FOR ALL MATERIAL, PRODUCT, AND PROCEDURE SPECIFICATIONS.
- SEE "LANDSCAPE GUIDELINES" FOR SUPPORTING TREES LARGER THAN 2-1/2" CALIBER.
- PLACE UPRIGHT STAKES PARALLEL TO WALKS & BUILDINGS.
- KEEP MULCH 1" FROM TRUNK FOR ADDITIONAL PLANTINGS WHICH EXCEED HOWARD COUNTY MINIMUM REQUIREMENTS.
- TREES ARE NOT TO BE PLANTED OVER PRIVATE SEWAGE EASEMENT.

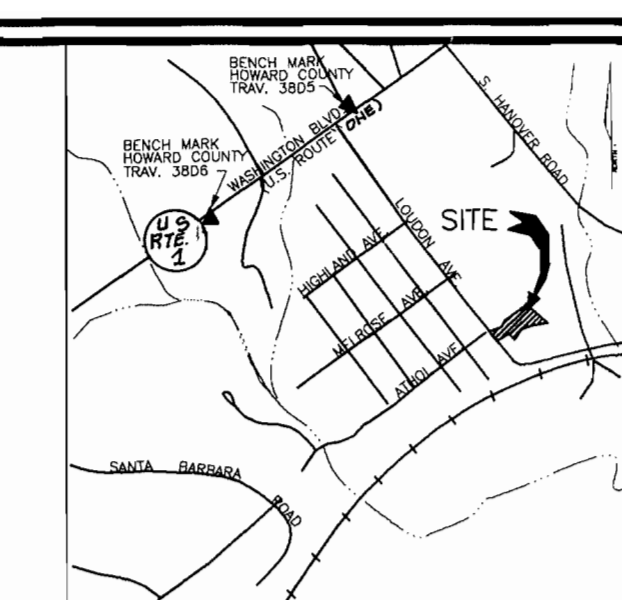
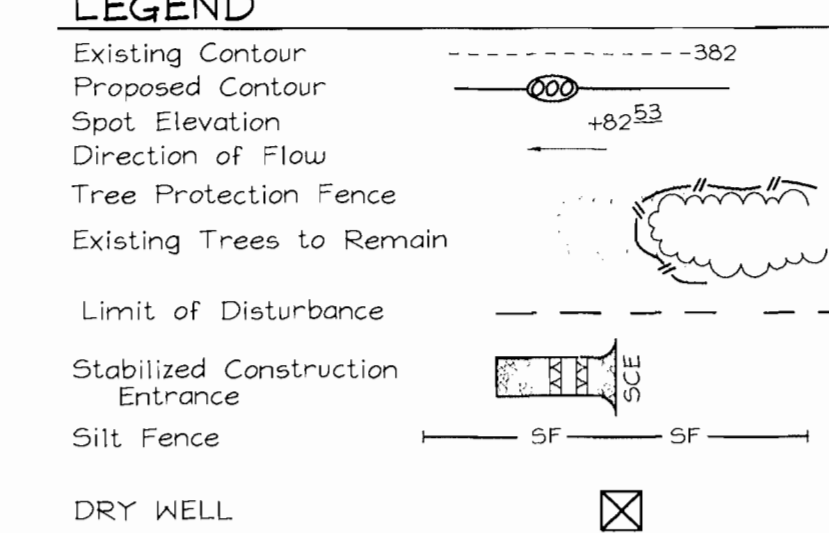


TREE PLANTING AND STAKING
DECIDUOUS TREES UP TO 2-1/2" CALIBER
NOT TO SCALE

SCHEDULE A PERIMETER LANDSCAPE EDGE

LANDSCAPE EDGE	(1)	(2)	(3)	(4)
LANDSCAPE TYPE	A	A	A	A
LINEAR FEET OF PERIMETER	279	129	276	204
CREDIT FOR EXISTING VEGETATION (YES, NO LINEAR FEET)	70	129	160	80
NUMBER OF PLANTS TO BE PROVIDED SHADE TREES (1:60)	4	0	2	2
NUMBER OF PLANTS REQUIRED SHADE TREES (1:60)	4	0	2	2

LEGEND



The plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code. The Landscape Manual, Financial Surety for the required B Landscape Trees has been posted as part of the Grading Permit as follows:
 Lot 1 = 1 Shade @ \$300.00
 Lot 2 = 1 Shade @ \$300.00
 Lot 3 = 4 Shade @ \$1200.00
 Lot 4 = 2 Shade @ \$600.00
 Total Surety = \$2400.00

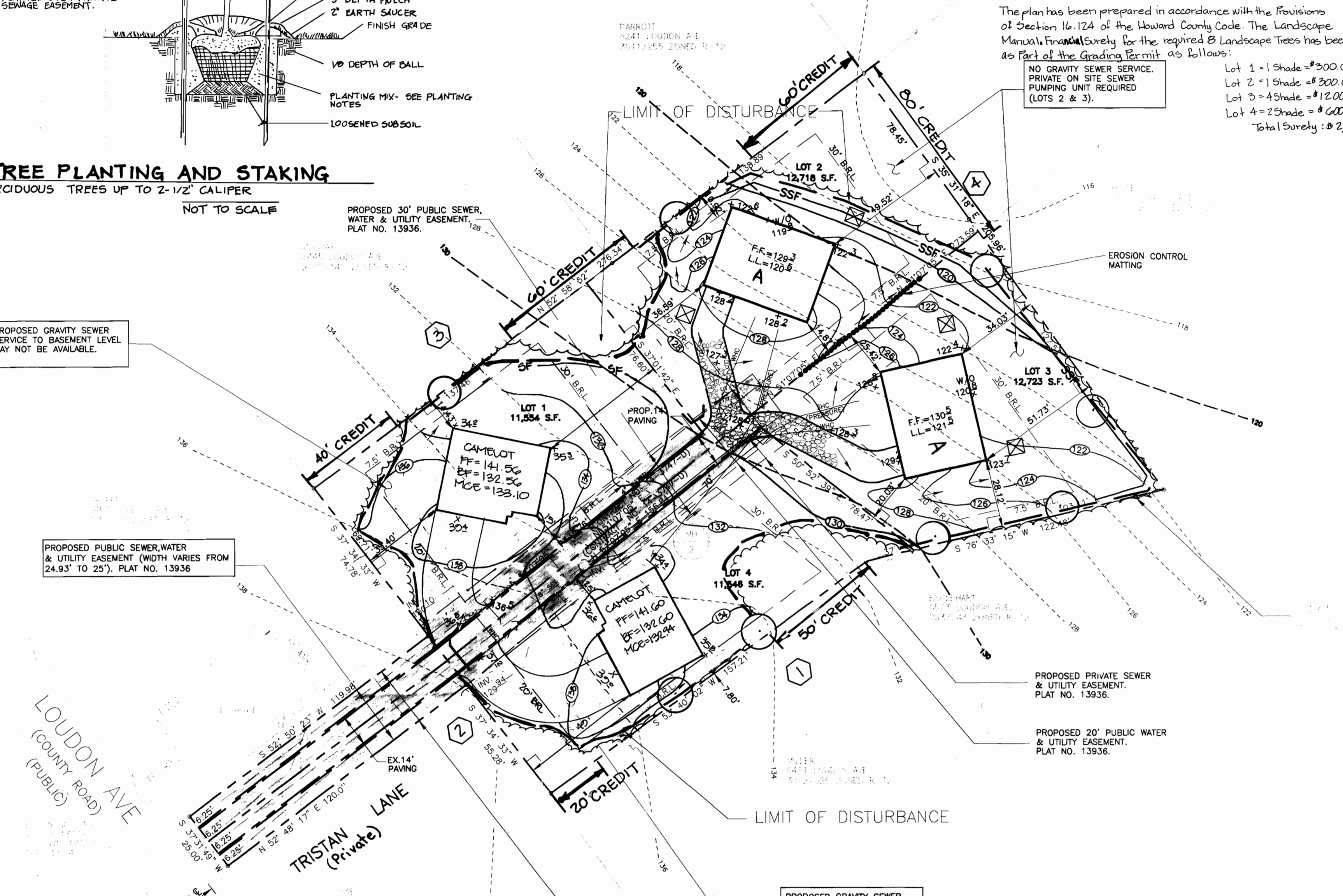
GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK.
- THE CONTRACTOR IS TO NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE DAYS BEFORE STARTING WORK ON THESE DRAWINGS:
 MISS UTILITY: 1-800-257-7777
 BELL ATLANTIC TELEPHONE COMPANY: 725-9976
 HOWARD COUNTY BUREAU OF UTILITIES: 313-2366
 AT&T CABLE LOCATION DIVISION: 353-3553
 B.G.E. CO. CONTRACTOR SERVICES: 950-4620
 B.G.E. CO. UNDERGROUND DAMAGE CONTROL: 781-6620
 STATE HIGHWAY ADMINISTRATION: 531-5533
- SITE ANALYSIS:
 AREA OF SITE: 1.144 AC
 AREA OF SUBMISSION: 1.144 AC
 PRESENT ZONING: R-12
 LIMIT OF DISTURBANCE: 0.86 AC
 PROPOSED USE OF SITE: SINGLE FAMILY DWELLINGS
 TOTAL NUMBER OF UNITS: 4
- PROJECT BACKGROUND:
 LOCATION: TAX MAP: 38 PARCEL: 213
 ZONING: R-12
 SUBDIVISION: PROFFEN PROPERTY
 DPZ REFERENCES: F-99-85
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/CONSTRUCTION INSPECTION DIVISION AT (410) 313-1850 AT LEAST FIVE (5) WORKING DAYS PRIOR TO START OF WORK.
- ANY DAMAGE TO PUBLIC RIGHTS-OF-WAY, PAVING, OR EXISTING UTILITIES WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- EXISTING UTILITIES LOCATED FROM A FIELD SURVEY AND AVAILABLE RECORD DRAWINGS, APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN FOR THE CONTRACTOR'S INFORMATION. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WELL IN ADVANCE OF CONSTRUCTION ACTIVITIES AND TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.
- TRAFFIC CONTROL DEVICES, MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ESTIMATES OF EARTHWORK QUANTITIES ARE PROVIDED SOLELY FOR THE PURPOSE OF CALCULATING FEES. SOIL COMPACTION SPECIFICATIONS, REQUIREMENTS, METHODS AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER TO CONFIRM ACCEPTABILITY OF PROPOSED PAVING SECTION, BASED ON SOILS TEST.
- FEE-IN-LIEU OF STORMWATER MANAGEMENT QUANTITY WAS PROVIDED UNDER F-99-85. DRY WELL WILL BE PROVIDED FOR WATER QUALITY.
- COORDINATES AND ELEVATIONS ARE BASED ON HOWARD COUNTY MONUMENTS 38R2 AND 38R3 (NAD 83)
 38R2 WITH N 557,500.663 E 391,227.052 ELEV. 168.78
 38R3 N 557,417.823 E 391,983.177 ELEV. 124.65
- EXISTING TOPOGRAPHY IS BASED ON PLANS PREPARED BY SHANABERGER & LANE DATED APRIL, 1998.
- LOTS 2 & 3 WILL HAVE ON-SITE PRIVATE PUMPING UNITS.
- DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
 A) WIDTH - 12 FEET FOR SINGLE, 14 FEET FOR DRIVEWAYS SERVING MORE THAN 2 LOTS.
 B) SURFACE - 3 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM)
 C) GEOMETRY - MAXIMUM 1% GRADE, MAXIMUM 10% GRADE CHANGE AND 25 FOOT TURNING RADIUS
 D) STRUCTURES (BRIDGES/CULVERTS) - CAPABLE OF SUPPORTING 25 GROSS TONS (255,000 LBS)
 E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE;
 F) STRUCTURE CLEARANCES - MINIMUM 12 FEET
 G) MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
- A FEE-IN LIEU OF OPEN SPACE IN THE AMOUNT OF \$3,000.00 HAS BEEN PROVIDED.
- THIS PLAN WAS REVIEWED BY THE MARYLAND AVIATION ADMINISTRATION, PERMIT NO. 99-127 AND APPROVED NOVEMBER 9, 1999.

OWNER: KEITH & DELEAH PROFFEN, 645 LOUDON AVE., ELKCRIDGE, MD. 21075
 DEVELOPER / CONTRACT PURCHASER: MAIN STREET BUILDERS, 5705 LANDING ROAD, ELKCRIDGE, MD. 21075, 410-744-6738

SEQUENCE OF CONSTRUCTION

- Obtain grading permit.
- Notify Howard County Bureau of Inspections and Permits (313-1800) at least 24 hours before starting any work.
- Construct Stabilized Construction Entrances.
- Install 6 ft fence & silt fence.
- Rough grade site.
- Construct house. The first floor elevation cannot be more than 1" higher or 0.2' lower than the elevations shown on this plan. The foundation footprint must be within the generic block.
- Final lot grade to be in substantial conformance with site development plan.
- During grading and after each rainfall, the contractor shall inspect and provide the necessary maintenance on the sediment erosion control measure shown hereon.
- Following initial soil disturbance or redistribution permanent or temporary stabilization shall be completed on the sediment erosion control measures shown with:
 A. 7 calendar days for all perimeter sediment control structures, dikes, swales, ditch perimeter slopes and all slopes greater than 3:1.
 B. 14 calendar days for all other disturbed areas.
- Upon stabilization of all disturbed areas and with the approval of the sediment control inspector, remove all sediment control devices.



PROPOSED PRIVATE USE-IN-COMMON ACCESS EASEMENT FOR LOTS 1 TO 4 (L-3357, F-97) PLAT NO. 13936 (PROFFEN PROPERTY F-97)

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 CERTIFICATION 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: Joseph E. Snodgrass, DATE: 2-2-00

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE IN ACCORDANCE TO THESE PLANS, 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.
 Signature of Developer: Joseph E. Snodgrass, DATE: 1-05-00

SHEET INDEX

1-	SITE DEVELOPMENT PLAN, GRADING AND SEDIMENT CONTROL AND LANDSCAPING PLAN	1 OF 2
2-	DETAIL SHEET	2 OF 2

THESE PLANS HAVE BEEN REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SOIL EROSION AND SEDIMENT CONTROL.
 Signature of Engineer: Robert H. Vogel, DATE: 1/19/00
 Signature of Engineer: John R. Robinson, DATE: 1/19/00
 HOWARD SOIL CONSERVATION DISTRICT

MINIMUM LOT SIZE CHART

LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
1.	11,554 S.F.	750 S.F.	10,804 S.F.
2.	12,718 S.F.	1,605 S.F.	11,113 S.F.
3.	12,723 S.F.	1,729 S.F.	10,994 S.F.
4.	11,546 S.F.	746 S.F.	10,800 S.F.

ADDRESS CHART

LOT	STREET ADDRESS
1.	6505 TRISTAN LANE (PRIVATE)
2.	6504 TRISTAN LANE (PRIVATE)
3.	6508 TRISTAN LANE (PRIVATE)
4.	6504 TRISTAN LANE (PRIVATE)

SUBDIVISIONS NAME	SECTION/AREA	LOTS
PROFFEN PROPERTY	N/A	1-4
PLAT NO./BLOCK NO.	TAX/ZONE	ELECT. DIST.
13936 / 14	R-12 / 38	1st
WATER CODE	SEWER CODE	CENSUS TR.
A-02		6012
		2151800

TREE SCHEDULE

NAME	SIZE	NUMBER
ACER RUBRUM-OCTOBER GLORY RED MAPLE	2 1/2" - 3" CAL.	8

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Signature of Director: Cheryl Hamilton, DATE: 2/3/00
 Signature of Chief: Cheryl Hamilton, DATE: 2/4/00
 Signature of Chief: Cheryl Hamilton, DATE: 1/12/00

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
 Signature of Engineer: Robert H. Vogel, DATE: 1/4/00

NO.	REVISION	DATE
2	REVISE HOUSE ELEVATION & LOT GRADES, LOT 4	10/24/00
1	REVISE HOUSE ELEVATION & LOT GRADES, LOT 1	10/24/00

SITE DEVELOPMENT PLAN GRADING AND SEDIMENT CONTROL AND LANDSCAPE PLAN
PROFFEN PROPERTY LOTS 1 TO 4
 TAX MAP #38 BLOCK 14 PARCEL '213'
 1ST ELECTION DISTRICT HOWARD COUNTY, MARYLAND

VOGEL & ASSOCIATES
 ENGINEERS-SURVEYORS-PLANNERS
 3691 Park Avenue, Suite 101 • Ellicott City, Maryland 21043
 Tel. 410.461.5828 Fax 410.465.3566

DESIGN BY: T. R.
 DRAWN BY: T. R.
 CHECKED BY: J. C. O.
 DATE: JAN., 2000
 SCALE: 1"=30'
 W.O. NO.: 96-019
 1 SHEET OF 2