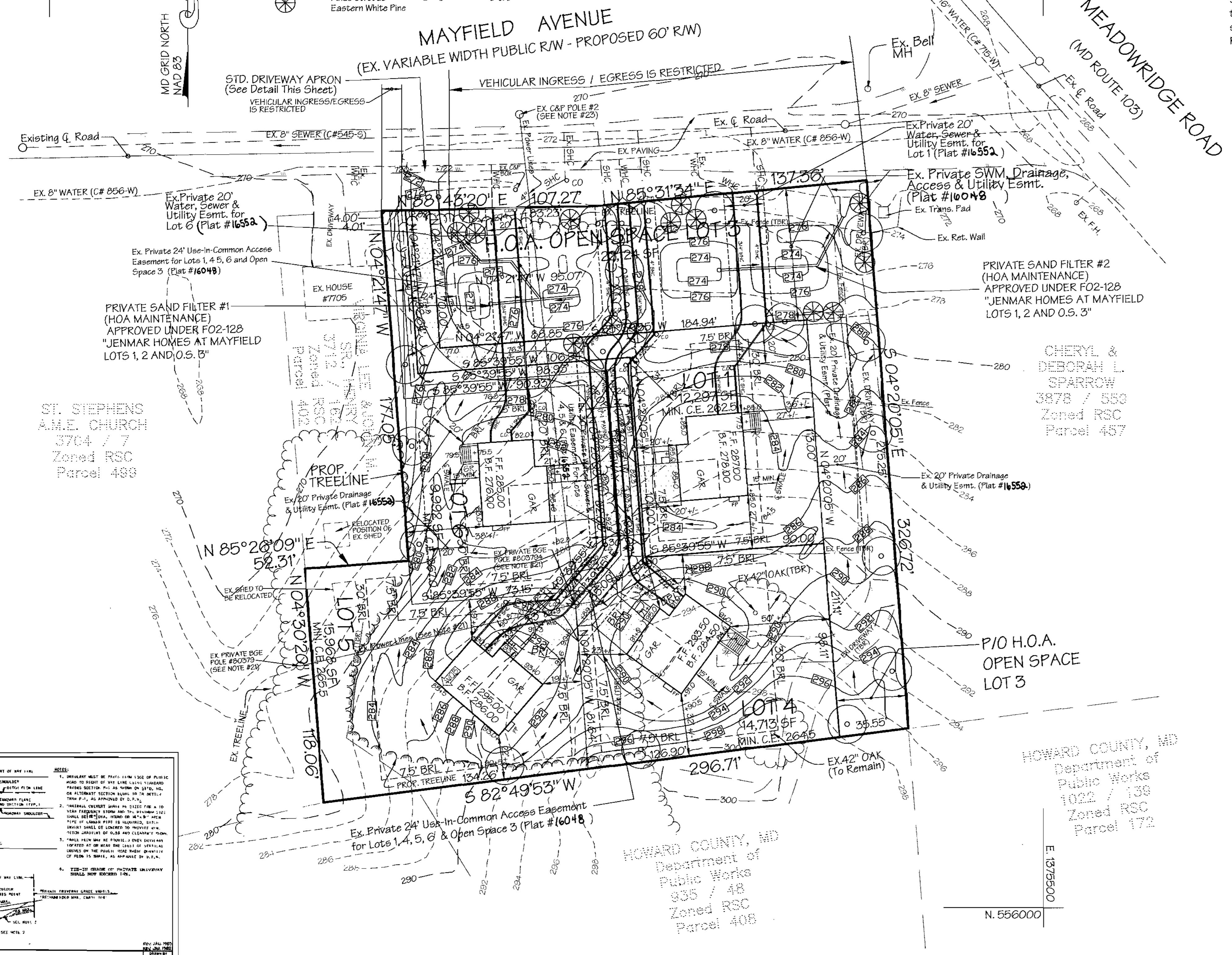


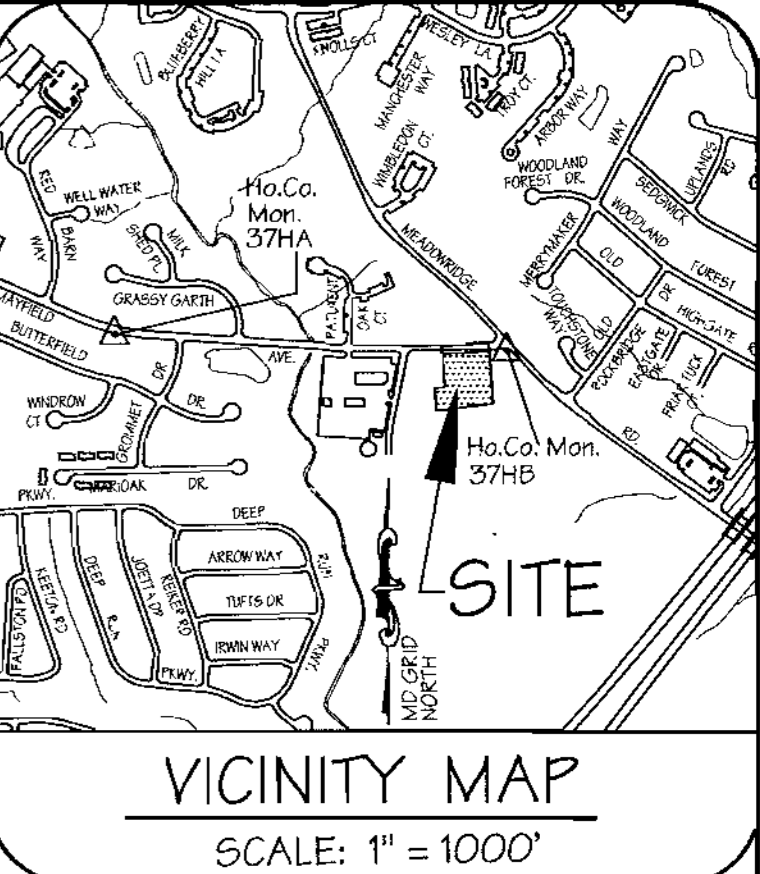
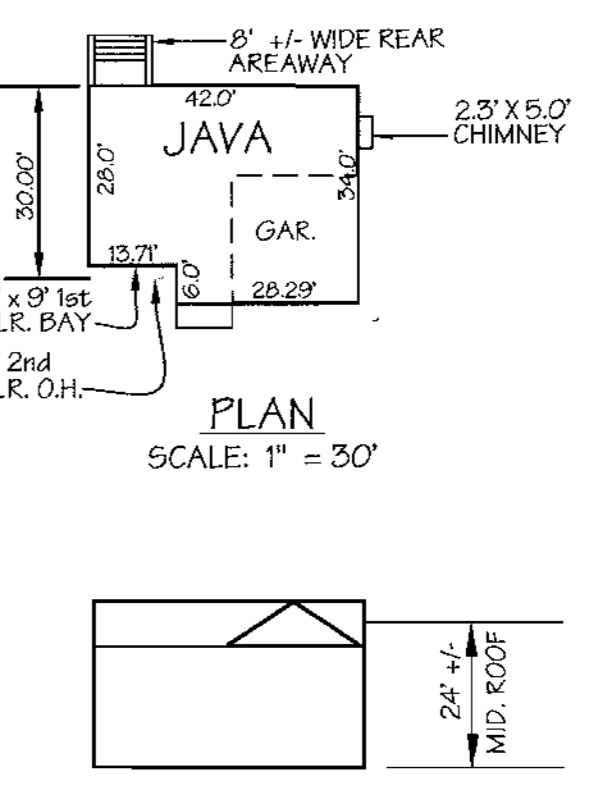
### PERIMETER PLANTING SCHEDULE

NO.	KEY	BOTANICAL / COMMON NAME	SIZE	COMMENT
21		DECIDUOUS TREES		
		Quercus rubra Red Oak	2-1/2" - 3"	B & B
14		EVERGREEN TREES		
		Pinus strobus Eastern White Pine	6' - 8'	B & B

NOTE: ALL WATER & SEWER HOUSE CONNECTIONS WITHIN MAYFIELD AVENUE RIGHT-OF-WAY TO BE INSTALLED BY HO. CO. BUREAU OF UTILITIES (ADVANCED DEPOSIT ORDER)



**BENCHMARKS:**  
 HOWARD COUNTY GEODETIC CONTROL: 37HA  
 Elevation: 284.450  
 Station is a standard stamped disc set on top of concrete monument. Located 3.9' from the edge of paving between driveway entrances to #7667 & #7871 Mayfield Avenue.  
 HOWARD COUNTY GEODETIC CONTROL: 37HB  
 Elevation: 270.738  
 Station is a standard stamped disc set on top of concrete monument. Located 28.2' southwest of the centerline of Meadowridge Road.



### LEGEND:

- EX. GROUND
- PROP. GRADE
- EX. TREELINE
- LANDSCAPE PLANTING (Previously Approved Under F02-128)
- PROP. TREELINE
- To Be Removed (TBR)
- SEWER HOUSE CONNECTION
- WATER HOUSE CONNECTION

- NOTES:**
- SITE ANALYSIS CHART:
    - TOTAL PROJECT AREA: 17240 ACRES +/-
    - LIMIT OF DISTURBANCE: 147 ACRES +/-
    - PRESENT ZONING CLASSIFICATION: RSC PER 10-10-83 COMPREHENSIVE ZONING PLAN
    - PROPOSED USE FOR SITE: SINGLE FAMILY DETACHED DWELLINGS
    - BUILDING COVERAGE: PROPOSED AC: 4.735%
    - TOTAL NUMBER OF UNITS ALLOWED: 4
    - TOTAL NUMBER OF UNITS PROPOSED: 4
  - PLAT REFERENCES: NOS. 16048, 16049, 16052, 16055
  - COORDINATES BASED ON NAD 83 HORIZONTAL COORDINATE SYSTEM, AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL, STATION NO. 37HA & 37HB
  - THE TOPOGRAPHY SHOWN HEREON WAS FIELD TAKEN BY L.D.L. ON 2/28/04
  - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS
  - IN ACCORDANCE WITH SECTION 25B OF THE HOWARD COUNTY ZONING REGULATIONS, ANY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS IS NOT MORE THAN 30 FEET IN WIDTH, MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SIDEWALK, PORCHES OR TERRACES, OPEN OR ENCLOSED, MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OF A YARD SETBACK.
  - DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENCE OF A RESIDENTIAL OCCUPANCY PERMIT FOR ANY NEW DWELLING TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES. FOR THE FOLLOWING MINIMUM REQUIREMENTS:
    - WIDTH: 12 FEET (ON FIRE SPRING MORE THAN ONE FIRE LANE)
    - SURFACE: 6" OF COMPACTED CRUSHER RUN BASE WITH 1" AND CHIP COATING (1" MIN)
    - GEOMETRY: MAX. 10% GRADE, MAX. 10% GRADE CHANGE AND MIN. 4" TURNING RADIUS
    - STRUCTURES (CULVERTS/BARRIERS): CAPABLE OF SUPPORTING 20 GROSS TONS (250 LBS/SQ FT)
    - DRAINAGE ELEMENTS: CAPABLE OF PASSING 100 YEAR FLOOD WITH HOA MORE THAN ONE FOOT DEPTH OVER DRAINAGE SURFACE
    - MAINTENANCE: SUFFICIENT TO INSURE ALL WEATHER CONDITIONS
    - GRADE: THE MAXIMUM ALLOWABLE GRADE SHALL BE 5% WITH THE DURABLE AND SATURATED SURFACE OF P.S. THE TRANSITION FROM THE ROAD TO THE DRIVEWAY SHALL NOT EXCEED 5%
    - HOUSE NUMBERING: WORKSHEET ONE (1) DRIVEWAY SERVES MORE THAN ONE (1) LOT (COMMON DRIVEWAY) A HOUSE NUMBER SIGN MUST BE PLACED AT EACH LOT ENTRANCE AND A RANGE OF STREET ADDRESS NUMBERS SHALL BE PLACED WHERE THE COMMON DRIVEWAY INTERSECTS WITH THE MAIN ROAD.
  - REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE IS TO BE PROVIDED AT THE JUNCTION OF THE DRIVEWAY ACCESS ROAD AND THE RIGHT-OF-WAY
  - THE CONTRACTOR OF DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION DIVISION TWENTY-FOUR (24) HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 410-203-1980
  - PROPOSED TREE NUMBERS: WFO 204 AND F02-128 ARE TO REMAIN
  - THIS SITE DEVELOPMENT PLAN IS SUBJECT TO COMPLIANCE WITH THE FIFTH EDITION OF THE HOWARD COUNTY SUBDIVISION AND LAND DEVELOPMENT REGULATIONS
  - THE EXISTING DWELLING STRUCTURE ON LOT 4 HAS FLOOD PLANNING AREAS LOCATED ON THIS PROPERTY
  - THERE ARE NO WETLANDS, STREAMS OR 100 YEAR FLOOD PLANNING AREAS LOCATED ON THIS PROPERTY
  - OPEN SPACE LOT 3 WAS DEDICATED TO THE MAYFIELD HOMEOWNERS ASSOCIATION. THE ARTICLES OF INCORPORATION FOR THE MAYFIELD HOMEOWNERS ASSOCIATION, INC. IDENTIFICATION NO. 027888 WAS ACCEPTED AND FILED WITH THE MARYLAND STATE DEPARTMENT OF ASSESSMENTS AND TAXATION ON APRIL 15, 2003
  - THE USE-IN-COMMON ACCESS MAINTENANCE AGREEMENT FOR LOTS 1, 4, 5, 6 AND OPEN SPACE LOT 3 (F02-128) IS RECORDED
  - PUBLIC WATER AND PUBLIC SEWER WILL BE AVAILABLE THROUGH PRIVATE EXTENSIONS OF EXISTING SEWER CONTRACT NO. 545-3 AND WATER CONTRACT NO. 636-6
  - STORMWATER MANAGEMENT HAS BEEN PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STATEMENT OF DESIGN MANUAL, VOLUME 18.2 THROUGH THE USE OF SURFACE SAND FILTERS. THE SURFACE SAND FILTERS WILL BE PRIVATELY MAINTAINED BY THE MAYFIELD HOMEOWNERS ASSOCIATION AS APPLICABLE
  - THIS PLAN IS SUBJECT TO WFO-24 ON FEBRUARY 14, 2003. THE PLANNING DIVISION APPROVED THE FOREST TO WAVE SECTION 16.12 (1) REQUIRING 40 FT. OF ROAD FRONTAGE FOR OPEN SPACE LOTS 1, 4, 5, 6 AND OPEN SPACE LOT 3. THE FOREST TO WAVE SECTION 16.12 (1) REQUIRING 40 FT. OF ROAD FRONTAGE FOR OPEN SPACE LOTS 1, 4, 5, 6 AND OPEN SPACE LOT 3. THE FOREST TO WAVE SECTION 16.12 (1) REQUIRING 40 FT. OF ROAD FRONTAGE FOR OPEN SPACE LOTS 1, 4, 5, 6 AND OPEN SPACE LOT 3. THE FOREST TO WAVE SECTION 16.12 (1) REQUIRING 40 FT. OF ROAD FRONTAGE FOR OPEN SPACE LOTS 1, 4, 5, 6 AND OPEN SPACE LOT 3.
  - LANDSCAPING FOR THIS SUBDIVISION IS PROVIDED IN ACCORDANCE WITH A CERTIFIED LANDSCAPE PLAN ON FILE WITH THE PLAT IN ACCORDANCE WITH SECTION 902A OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. LANDSCAPE SAFETY SHALL BE PROVIDED WITH THE DEVELOPER'S AGREEMENT AS FOLLOWS: LOT 1 - QUANTITY FOR OPEN SPACE LOT 3 PLANTINGS INCLUDES 10,000 FOR SHADE TREES AND 14 EVERGREEN TREES. LOT 4 - 8000 FOR SHADE TREES. LOT 5 - 8000 FOR SHADE TREES. LOT 6 - 8000 FOR SHADE TREES. TOTAL QUANTITY REQUIRED: 30,000 FOR SHADE TREES AND 14 EVERGREEN TREES. THE FOREST CONSERVATION TREE IN-LIEU FOR THE 30 ACRES OF REQUIRED REFORESTATION FOR THIS SUBDIVISION HAS BEEN PAID IN THE AMOUNT OF \$60,000 INTO THE FOREST CONSERVATION FUND IN ACCORDANCE WITH SECTION 1022 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL, WFO-128.
  - THE SITE CARRIES AN EROSION CONTROL PLAN IN ACCORDANCE WITH THE HOWARD COUNTY CODE AND THE EXISTING OVERHEAD LINES BETWEEN CAP POLE #2, DGE FILE #402034 AND POLE #203703 SHALL BE REMOVED. DGE FILE #402034 AND SUPPORTING GUY WIRE #5 SHALL ALSO BE REMOVED.

### SCHEDULE A PERIMETER LANDSCAPE EDGE

Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	-	A
Linear Feet of Roadway Frontage / Perimeter	-	854 LF
Credits for Existing Vegetation (Yes, No Linear Feet) (Describe below if needed)	-	Yes, 205 LF 1 - 42" Oak To Remain
Credits for walk, fence or berm (Yes, No Linear Feet) (Describe below if needed)	-	No
Number of Plants Required	-	649 LF
Shade Trees	-	160 = 11 Shade Trees
Evergreen Trees	-	---
Shrubs	-	---
Number of Plants Provided	-	10 Shade Trees & 1 Ex. To Remain = 11 Shade
Shade Trees	-	---
Evergreen Trees	-	---
Other Trees (21 substitution) Shrubs (10 substitution) (Describe plant substitution credits below if needed)	-	---

Comments: 854 LF - 205 LF = 649 LF Required Perimeter To Be Planted  
 854 LF - 205 LF = 11 Shade @ 1:60'

### SCHEDULE D STORMWATER MANAGEMENT AREA LANDSCAPING (Sand Filter #1 and #2)

Linear Feet of Perimeter	1,4,5 & 6 @ 0.5 Lot 3 - 540 LF
Number of Plants Required	11 Shade 14 Evergreen
Shade Trees 1:50	---
Evergreen Trees 1:40	---
Credits for Existing Vegetation (Yes, No and %)	NO
Credits for Other Landscaping (Yes, No and %)	NO
Number of Trees Provided	11 Shade 14 Evergreen
Shade Trees	---
Evergreen Trees	---
Other Trees (21 substitution)	---

### ADDRESS CHART

LOT NO.	STREET ADDRESS
1	7691 MAYFIELD AVENUE
4	7695 MAYFIELD AVENUE
5	7699 MAYFIELD AVENUE
6	7703 MAYFIELD AVENUE

### INDEX OF SHEETS

No.	Description
1	Site Development Plan
2	Sediment & Erosion Control Plan
3	Sediment & Erosion Control and Landscape Notes & Details
4	Sediment & Erosion Control and Landscape Notes & Details

### REVISIONS

No.	Date	Description

Project: JENMAR HOMES AT MAYFIELD  
 Plat Ref: 16048, Block No: 15, Zone: RSC, Tax Map No: 37, Election District: 1st, Census Tract: 6011.02  
 Water Code: D06, Sewer Code: 2570000

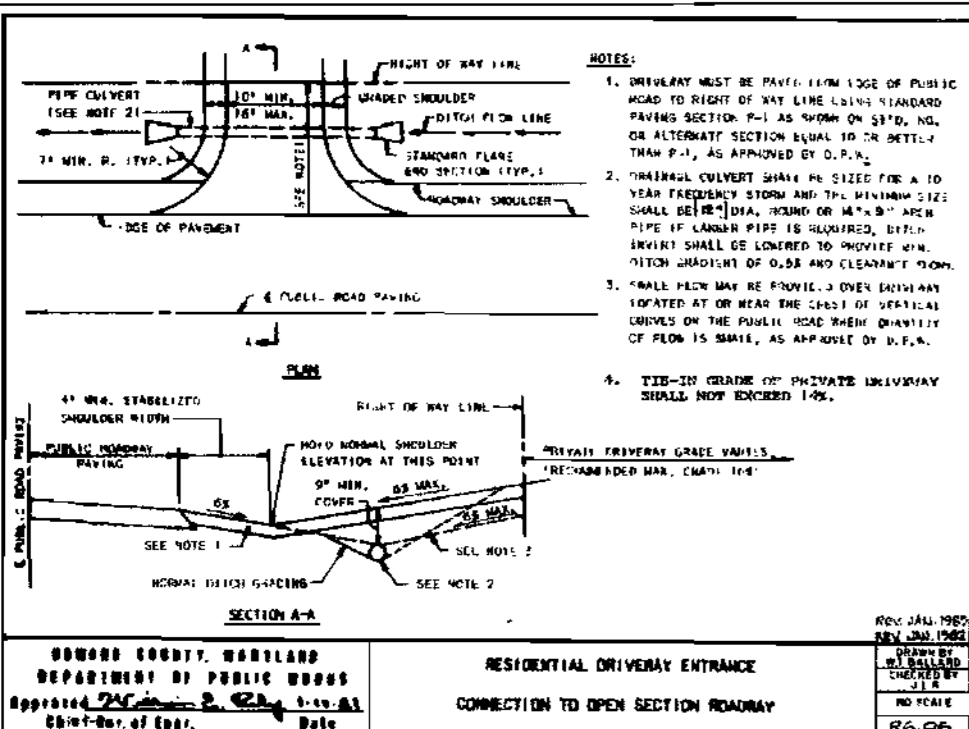
**LDE, INC.**  
 9250 Rumsey Road, Suite 106, Columbia, MD 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

**SITE DEVELOPMENT PLAN**  
**JENMAR HOMES AT MAYFIELD**  
 LOTS 1, 4, 5, 6 & OPEN SPACE LOT 3  
 PARCEL 403

Tax Map No. 37 Grid 15  
 1st Election District, Howard County, Maryland  
 Previous Submittals: WPO3-74, F02-128 & F02-129  
 OWNER/DEVELOPER: RRIG CORPORATION  
 3403 Old Post Drive  
 Baltimore, Maryland 21208  
 410-486-5693

DESIGNED: EDS  
 DRAWN: KBW  
 CHECKED: BDB  
 DATE: 8/2003

SCALE: 1" = 30'  
 DRAWINGS: 1 of 4  
 JOB NO: 03-032  
 FILE NO: SDP04-32



APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

*Mark M. Lopez* 4/16/04  
 DIRECTOR DATE

*John M. Myers* 3/2/04  
 NATURAL RESOURCE CONSERVATION SPECIALIST DATE

*Conda Hamilton* 3/16/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

*John R. Robertson* 3/2/04  
 HOWARD SOIL CONSERVATION DISTRICT DATE

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

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

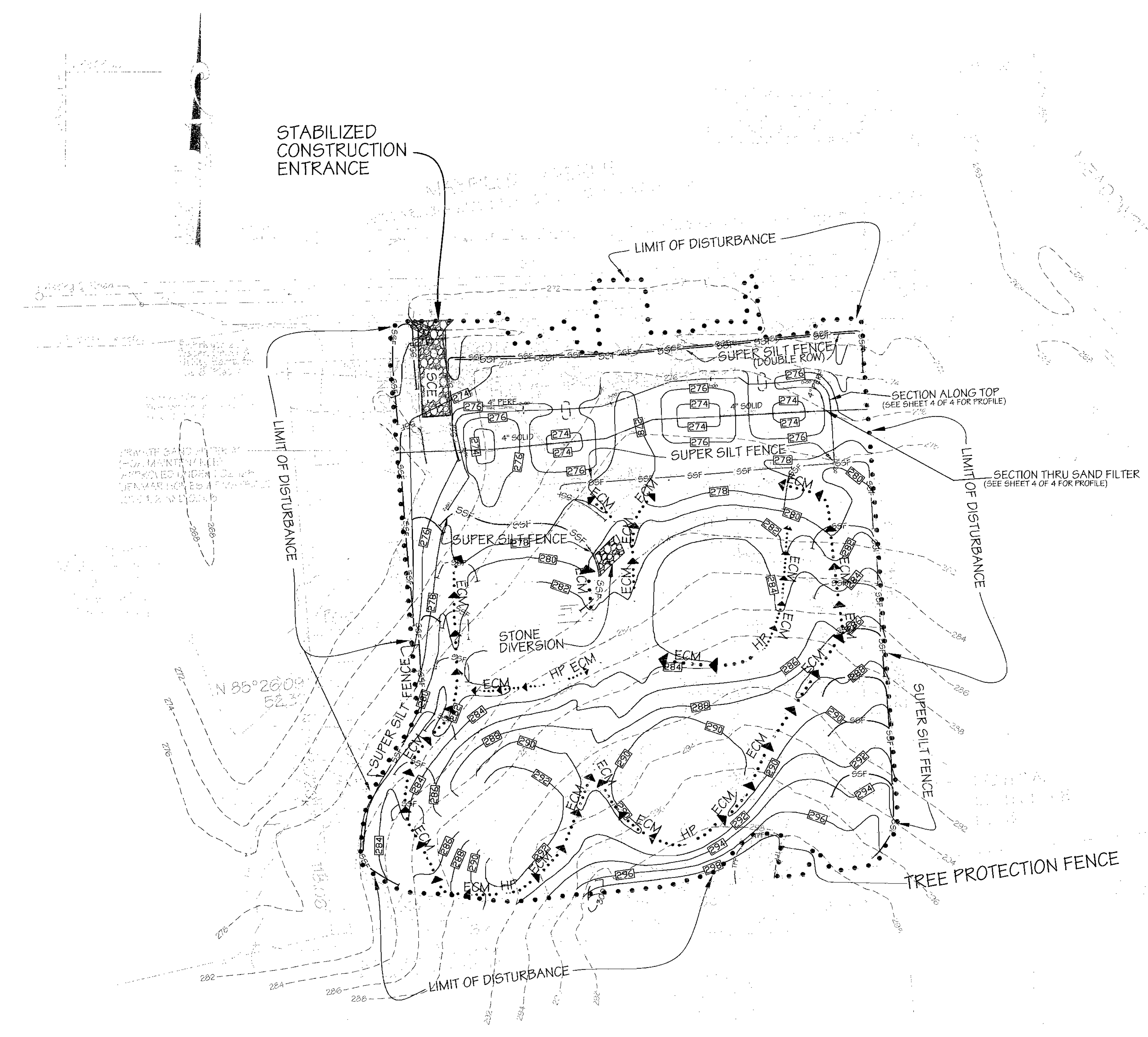
**ENGINEER'S CERTIFICATE**  
 I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL, AND THE ASSOCIATED WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE PROJECT AND THE PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DISTRICT.

*Broce D. Burton* 2/29/04  
 SIGNATURE OF ENGINEER

**DEVELOPER'S CERTIFICATE**  
 I HAVE CERTAIN THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS MAY BE DEEMED NECESSARY.

*John R. Robertson* 2-20-04  
 SIGNATURE OF DEVELOPER - MARK GHEILER DATE

**PROFESSIONAL ENGINEER**  
 STATE OF MARYLAND  
 PROFESSIONAL ENGINEER  
 4/20/04



**LEGEND**

- EX. GROUND
- PROP. GRADE
- EX. TREELINE
- PROP. TREELINE (TBR)
- ..... LIMIT OF DISTURBANCE
- SSF --- SUPER SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- ECM ECM EROSION CONTROL MATTING
- TPF --- TREE PROTECTION FENCE

**SEQUENCE OF CONSTRUCTION**

1. Obtain Grading Permit 1 DAY
  2. Notify the Howard County Dept. of Inspections, Licenses and Permits at least 24 hours prior to starting work. 1 DAY
  3. Construct stabilized construction entrance. Install tree protection fence. 1 DAY
  4. Install super silt fence at limit of disturbance shown hereon. Install double row of super silt fence at Mayfield Avenue right-of-way line. Install super silt fence at 25 foot intervals within swales as shown. 4 DAYS
  5. Clear and grub site to subgrade. 5 DAYS
  6. Begin excavation for house foundations and begin house construction. Install water and sewer house connections. 60 DAYS
  7. Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon after each rainfall and on a daily basis. DAILY
  8. Remove sediment from roadways and dress stabilized construction entrance as required. MAINTENANCE
  9. Fine grade and stabilize with permanent seeding mixture and straw mulch. Install individual driveways and house walks. 5 DAYS
  10. After all upgrade drainage areas have been stabilized, install sand filters #1 and #2. 10 DAYS
  11. Install landscape trees. 5 DAYS
  12. With permission from the Sediment Control Inspector, remove all sediment and erosion control measures and stabilize any remaining disturbed areas with permanent seeding mixture and straw mulch. 5 DAYS
- TOTAL TIME: 100 DAYS

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Mark Gheiler* 2/9/04  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION MKG DATE

*Carly Hamilton* 2/16/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT CH DATE

*Mark Gheiler* 2/16/04  
 DIRECTOR DATE

**ENGINEER'S CERTIFICATE**

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

*Bruce D. Burton* 2/20/04  
 SIGNATURE OF ENGINEER - BRUCE D. BURTON DATE

**DEVELOPER'S CERTIFICATE**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

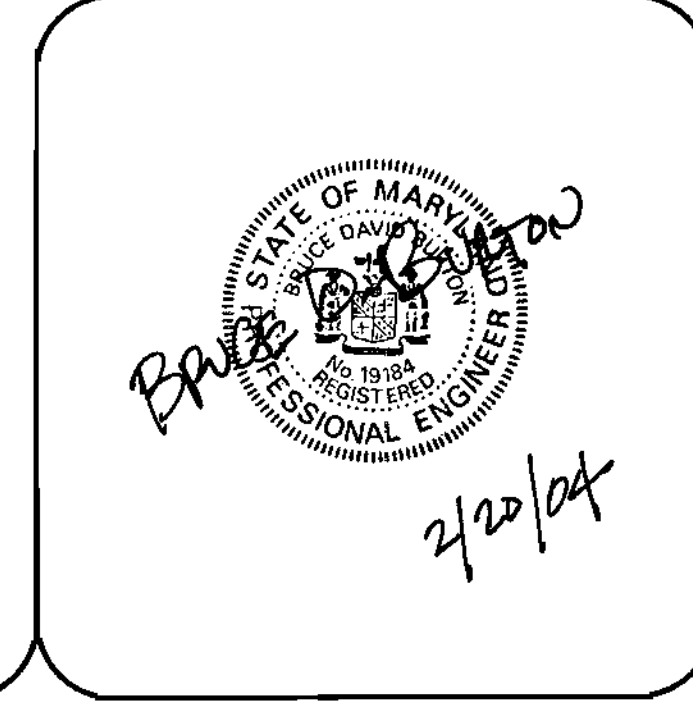
*Mark Gheiler* 2-20-04  
 SIGNATURE OF DEVELOPER - MARK GHEILER DATE

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

*Jim Myers* 3/2/04  
 NATURAL RESOURCE CONSERVATION SERVICE DATE

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

*John R. Robertson* 3/2/04  
 HOWARD SOIL CONSERVATION DISTRICT DATE

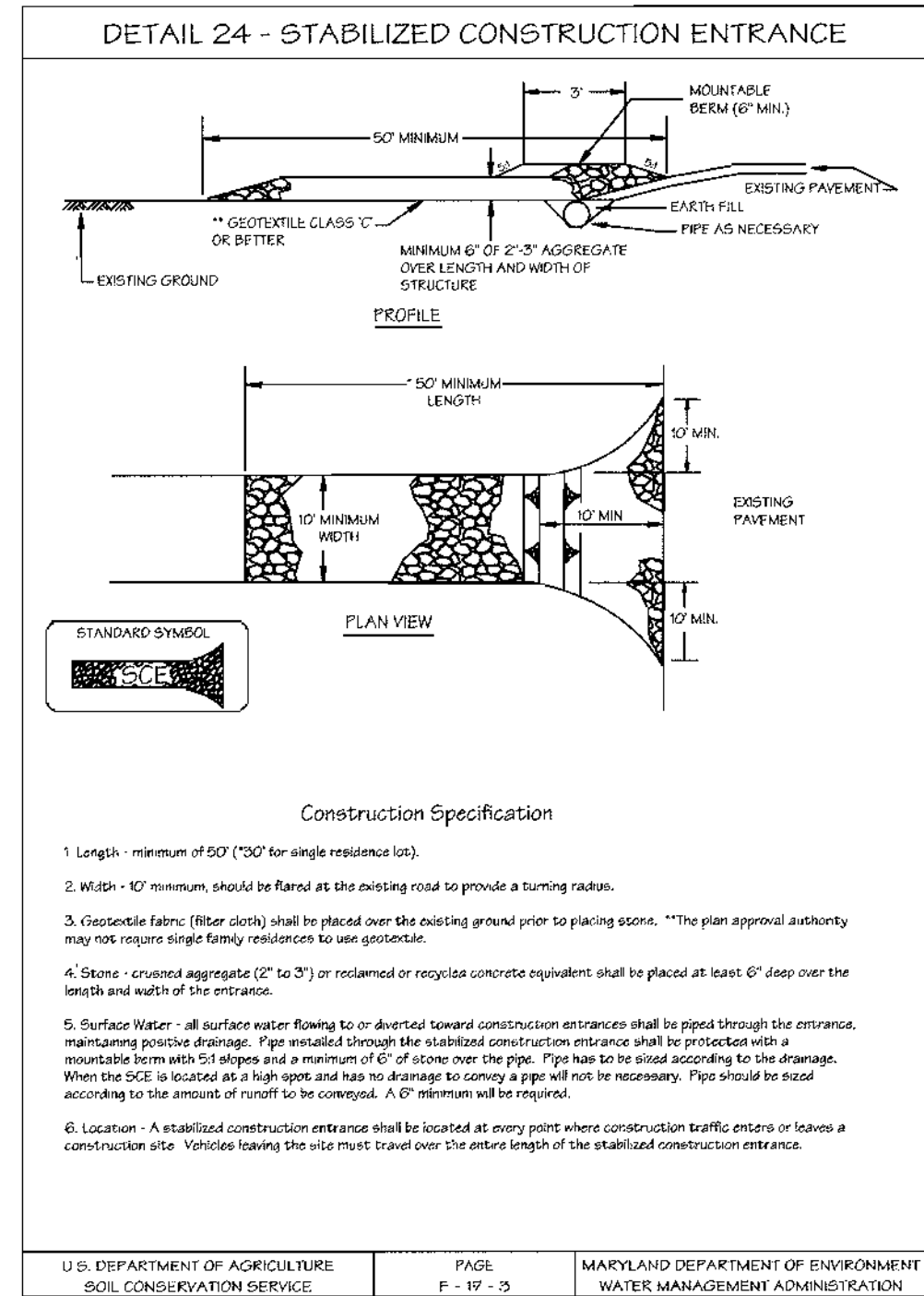
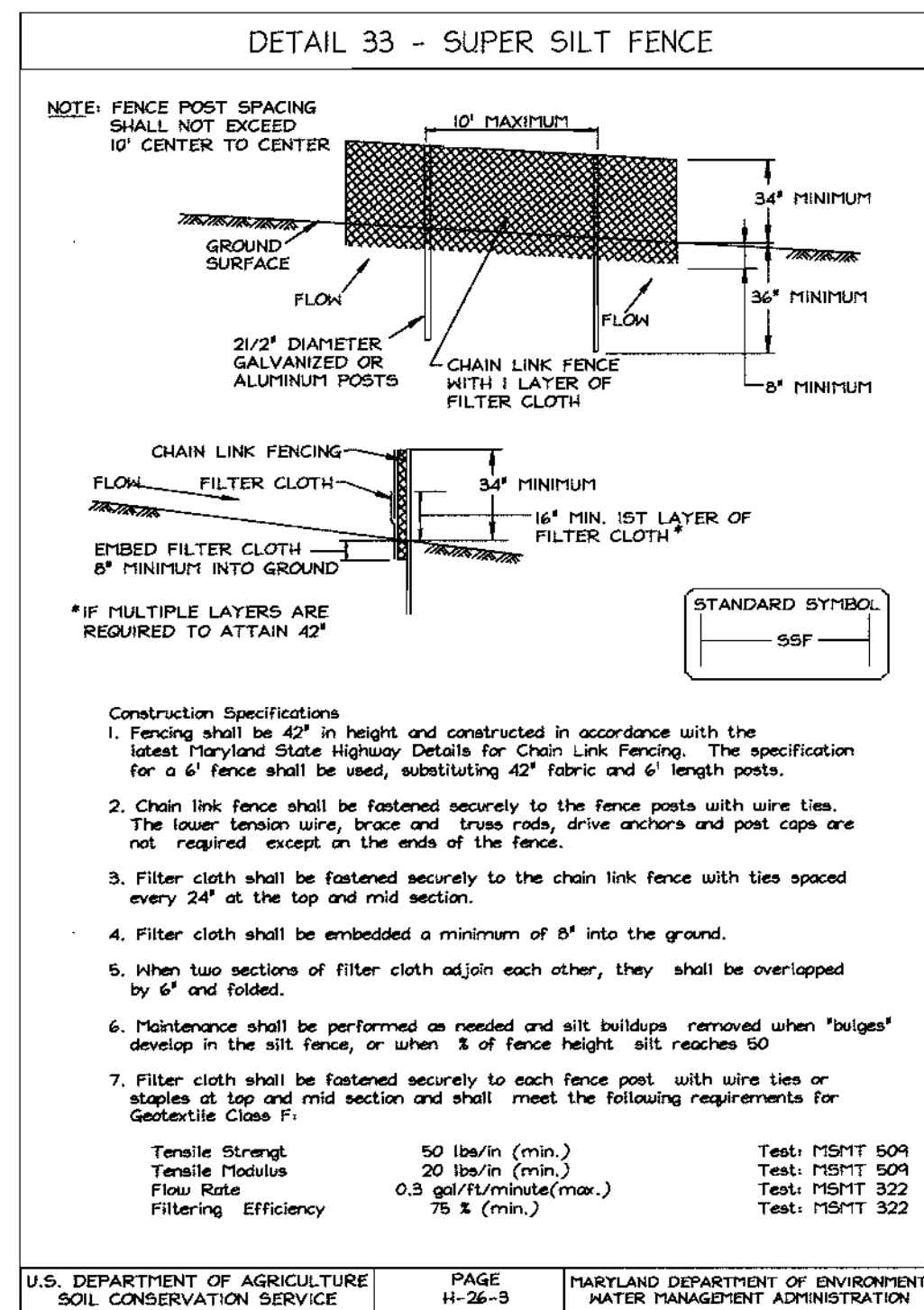
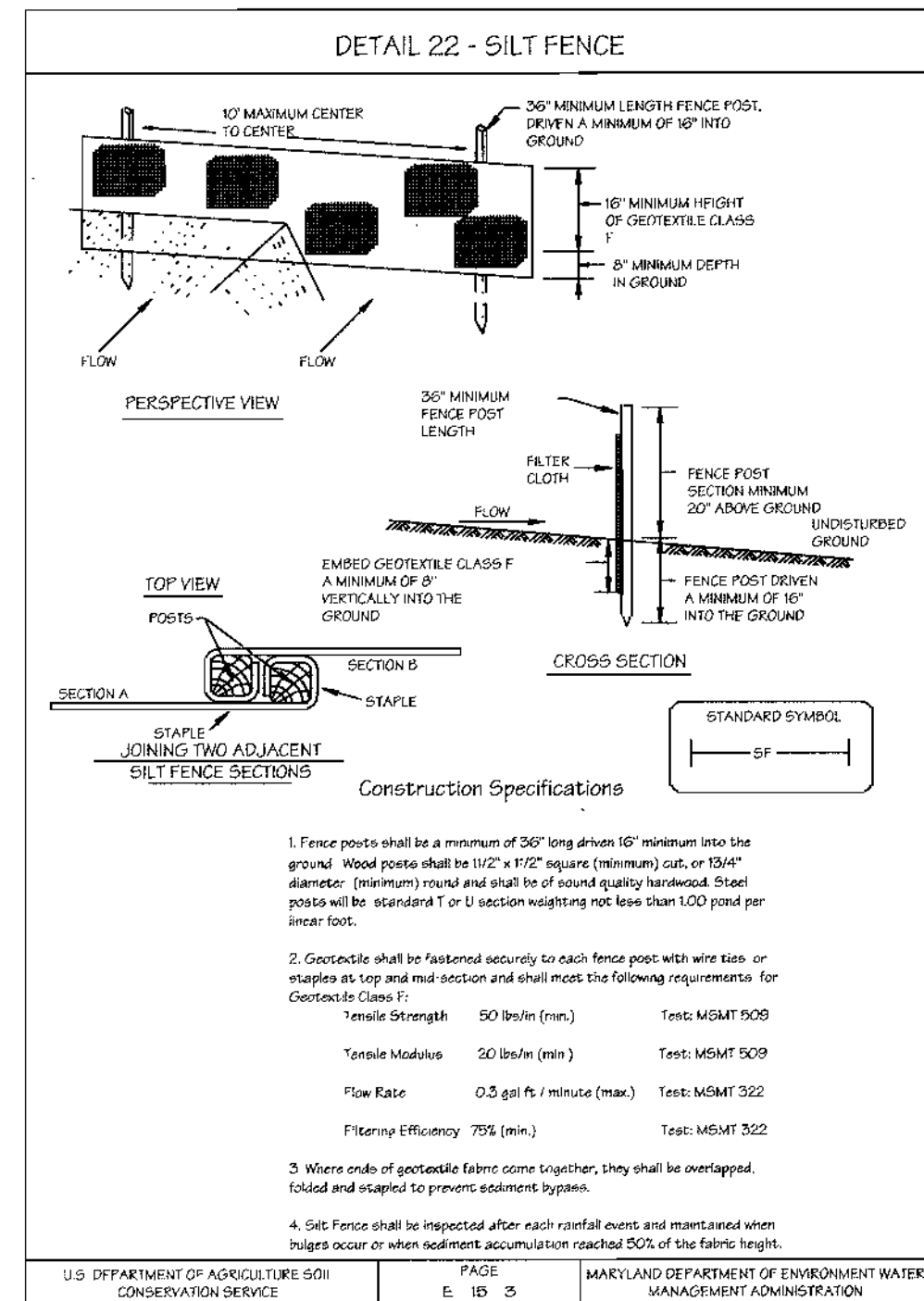


REVISIONS			
No.	Date	By	Description

LDE, INC.  
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

DESIGNED EDS	<b>SEDIMENT &amp; EROSION CONTROL PLAN</b> <b>JENMAR HOMES AT MAYFIELD</b> LOTS 1, 4, 5, 6 & OPEN SPACE LOT 3 PARCEL 403 Tax Map No. 37 Grid 15 1st Election District, Howard County, Maryland Previous Submittals: WPO3-74, FO2-128 & FO2-129	SCALE 1" = 30'
DRAWN KBW		DRAWINGS 2 of 4
CHECKED BDB		JOB NO. 03-032
DATE 8/2003		FILE NO. SDP04-32

OWNER/DEVELOPER: RRG CORPORATION  
 3403 Old Post Drive  
 Baltimore, Maryland 21208  
 410-486-5693



**HOWARD SOIL CONSERVATION DISTRICT 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.

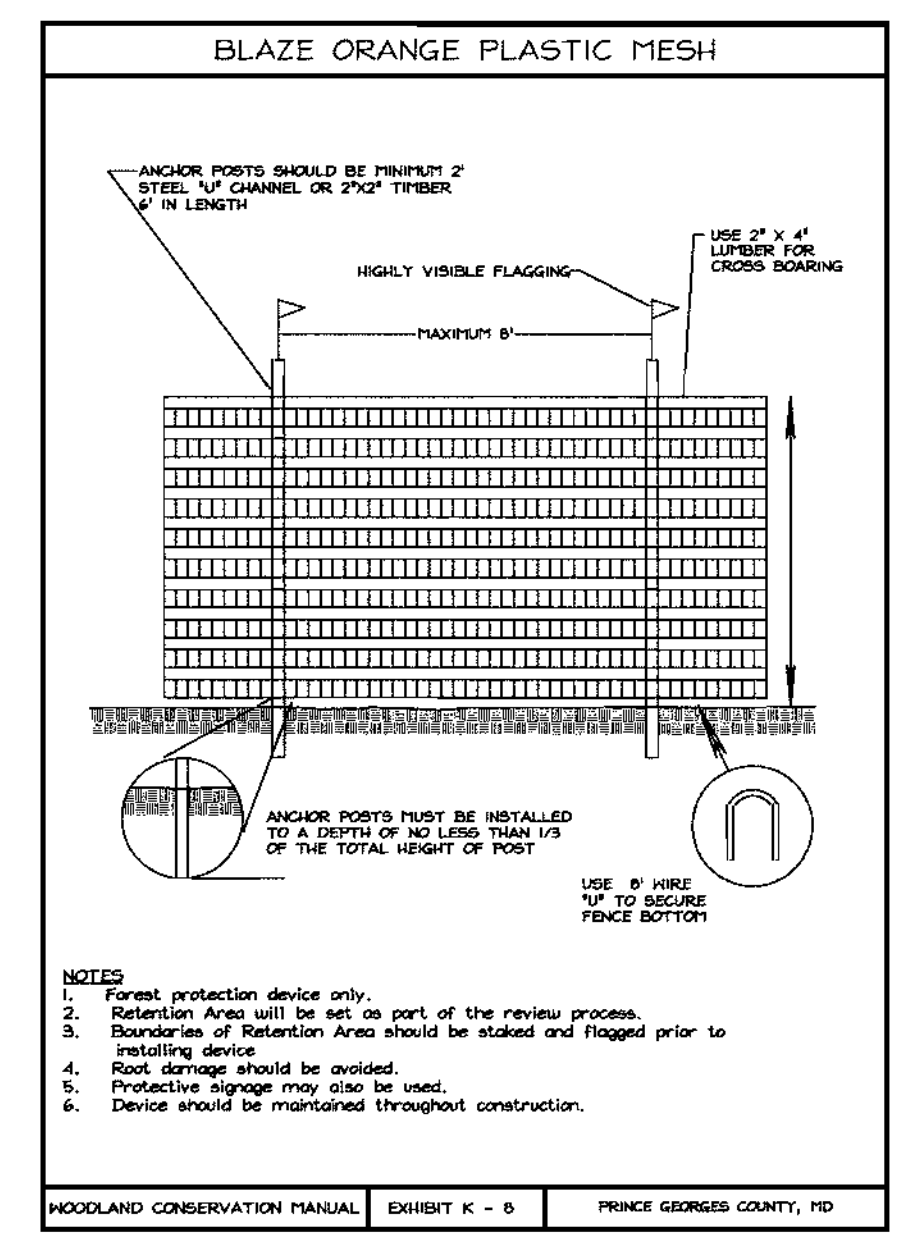
**SOIL AMENDMENTS:** In lieu of soil test recommendations, use one of the following schedules:

- PREFERRED** -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000sq. ft.)
- ACCEPTABLE** -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sq. ft.) before seeding. Harrow or disk 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/1000sq. ft.) of Kentucky 31 Tall Fescue. For the period May 1 thru July 31, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs. per acre (.05 lbs/1000sq. ft.) of weeping lovegrass. During the period October 16 thru February 28, protect site by Option (1) - 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) - Use sod. Option (3) - Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch 2 tons / acre well anchored straw.

**MULCHING** -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. 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/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

**MAINTENANCE** -- Inspect all seeding areas and make needed repairs, replacements and reseeding.



**HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES**

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

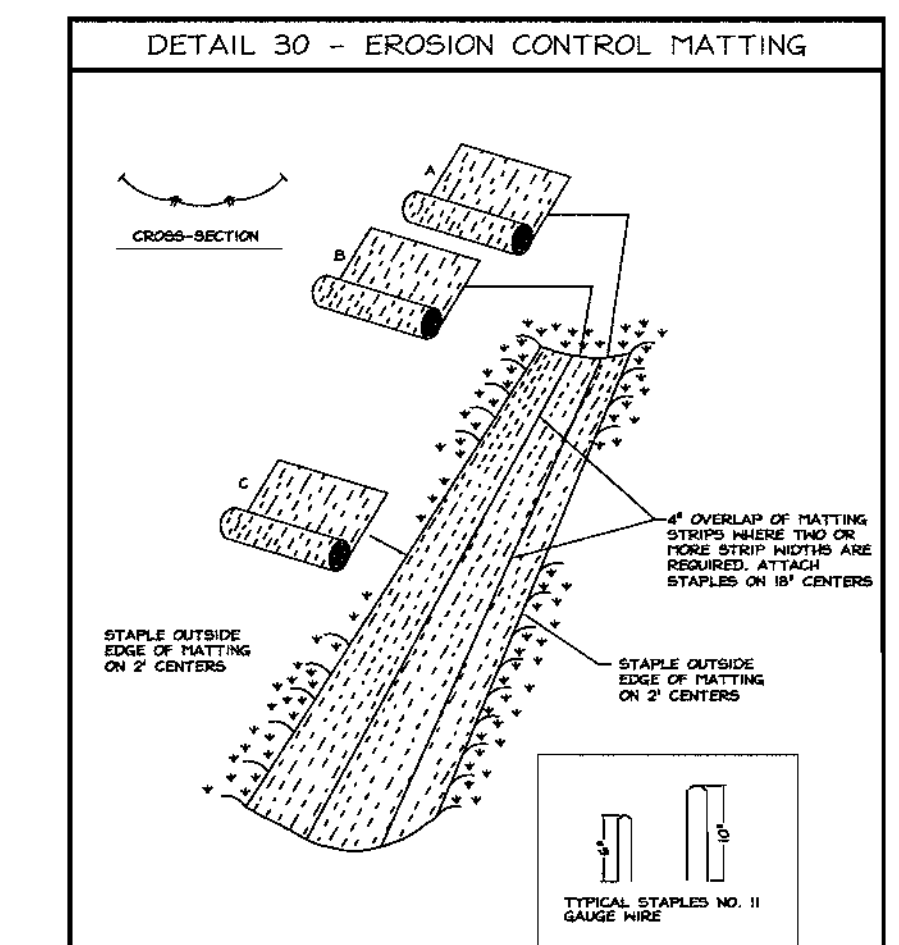
**SEEDBED PREPARATION:** -- Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

**SOIL AMENDMENTS:** -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

**SEEDING** -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-12 bushels per acre of annual ryegrass (3.2 lbs/1000sq. ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (.07 lbs/1000sq. ft.). For the period November 16 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/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000sq. ft.) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000sq. ft.) for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.



**TREE PLANTING NOTES**

- Notify "Miss Utility" 72 hours prior to installation of all plant material.
- Plant installation must conform to the minimum standards cited in the latest edition of Landscape Specification Guidelines, published by the Landscape Contractors Association.
- Plants to be located in the field by the owner or owner's representative. Notify owner 72 hours in advance of planting.
- A Certification of Landscape Installation is required as per the Howard County Landscape Ordinance.
- The number, size, location of plants shall not be changed without the approval of the Landscape Architect. Substitutions must be included in the recommended plant list in the Howard County Landscape Ordinance.
- Trees may not be planted within 5 feet of drain inlets, 5 feet of an open space access strip and 10 feet of a driveway.
- Balled and burlapped plant material shall not be accepted if ball is cracked or broken before or during planting. Protect all plants from drying by either sun or wind.
- Tree pits shall be backfilled with 50% topsoil, 25% peat 25% sand with one pound of 10-10-10 fertilizer per pit.
- Top soil shall be sandy loam soil free from noxious weeds or grasses, roots, clay clumps, stones, sticks, etc. Peat moss shall be commercial with pH 4.5 to 5.5, free of woody material or harmful minerals.
- All plants shall be watered at planting with weekly watering thereafter for the first 80 days. Watering shall continue bimonthly or as necessary to maintain plants in a healthy condition during the guarantee period.
- Maintain the site in an orderly manner. Streets and sidewalks shall be swept clean. All rejected or dead materials shall be immediately removed from the site.
- Plant material to be alive and healthy at the time of the guarantee period (one year), as specified in the Howard County Landscape Ordinance.
- Maintenance shall begin immediately after planting and continue to the end of guarantee period.
- Maintenance consist of pruning, watering, weeding, re-mulching, resetting plants to proper grades as needed and repairing guys and stakes as needed.

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

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction, (CIS-1055).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", and revisions thereto.
- 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.
- All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. I, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- 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 (Section G) for permanent seeding, sod, temporary seeding, and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operable condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:
 

Total Area of Site	17240	Acres
Area Disturbed	167	Acres
Area to be roofed or paved	0.29	Acres
Area to be vegetatively stabilized	1.98	Acres
Total Cut	1200	Cu. Yds.
Total Fill	1200	Cu. Yds.
Off-site waste/harrow area location	N/A	
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- 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.
- Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.

Perimeter No.	Perimeter Length	Buffer Type
1	177 LF	A
2	52 LF	A
3	118 LF	A
4	296 LF	A
5	211 LF	A
6	64 LF	B
7	221 LF	B
8	70 LF	B
9	185 LF	B

**21.0 STANDARD 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 vegetative 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**
- This practice is limited to areas having 2:1 or flatter slopes where:
    - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
    - 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.
    - The original soil to be vegetated contains material toxic to plant growth.
    - The soil is so acidic that treatment with limestone is not feasible.
  - 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**
- 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.
  - Topsoil Specifications - Soil to be used as topsoil must meet the following:
    - 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 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 1-1/2" in diameter.
    - Topsoil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass, nutsedge, poison ivy, thistle, or others as specified.
    - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be applied 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.
  - For sites having disturbed areas under 5 acres:
    - Place topsoil (if required) and apply soil amendments as specified in 20.0 Vegetative Stabilization - Section I - Vegetative Stabilization Methods and Materials.
- References:**Guideline Specifications, Soil Preparation and Sowing, MD-VA, Pub.#1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes, Revised 1973.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

*Mark Gheller* 3/2/04  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

*Chris Hamstra* 3/16/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT

*David A. Meyer* 3/16/04  
 DIRECTOR

**ENGINEER'S CERTIFICATE**

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

*David D. Burton* 3/2/04  
 SIGNATURE OF ENGINEER - BRUCE D. BURTON

**DEVELOPER'S CERTIFICATE**

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.

*Mark Gheller* 2-20-04  
 SIGNATURE OF DEVELOPER - MARK GHELLER

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

*Jim Meyer* 3/2/04  
 NATURAL RESOURCE CONSERVATION SERVICE

*John R. Robertson* 3/2/04  
 HOWARD SOIL CONSERVATION DISTRICT

**REVISIONS**

No.	Date	By	Description

*Bruc D Burton* 2/20/04  
 PROFESSIONAL ENGINEER

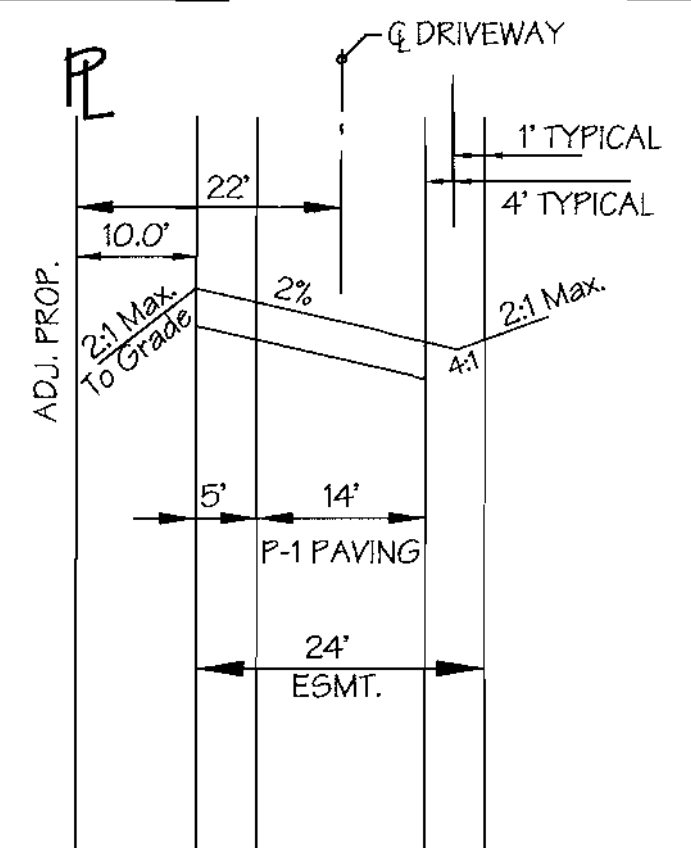
DESIGNED: EDS  
 DRAWN: KBW  
 CHECKED: BDB  
 DATE: 8/2003

**LDE, INC.**  
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)

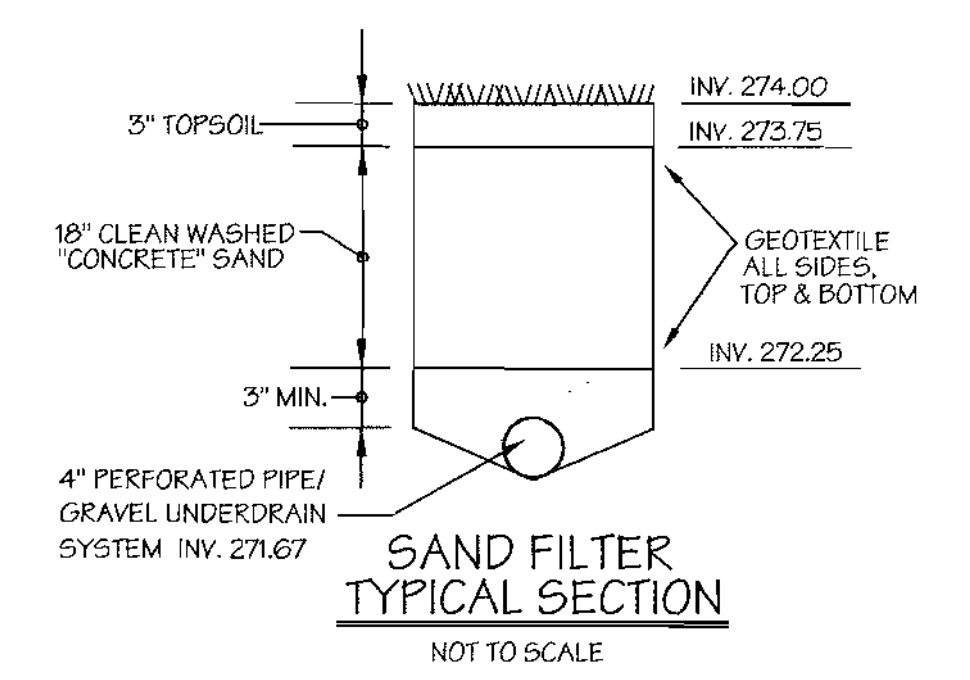
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 DRAWING: 3 of 4  
 JOB NO.: 03-032  
 FILE NO.: GDDP04-32

OWNER/DEVELOPER: KRIG CORPORATION  
 3403 Old Post Drive  
 Baltimore, Maryland 21208  
 410-496-5693

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS	
		FULL DEPTH BIT. CONC. ALTERNATE	GRANULAR BASE ALTERNATES
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL- INDUSTRIAL ZONES WITH NO HEAVY TRUCKS TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE	1" BIT. CONC. SURFACE 4" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
<small>TRAVELWAYS ARE DEFINED AS THE ROADWAYS LEADING TO THE PARKING BAYS HEAVY TRUCKS ARE DEFINED AS THOSE WITH 6 WHEEL OR MORE INCLUDING GARBAGE TRUCKS</small>			
<b>HOWARD COUNTY, MARYLAND</b> <b>DEPARTMENT OF PUBLIC WORKS</b> Approved: <i>[Signature]</i> Chief-Dir. of Engr. Date: <i>[Date]</i>		PAVING SECTIONS P-1 THROUGH P-4	DRAWN BY: W.F. BULLARD CHECKED BY: J.L.B. NO SCALE REV. OCT. 1990 REV. JAN. 1994 REV. JULY 1992 R: 2.01



Material	Specification / Test Method	Size	Notes
Sand	clean AASHTO-M-6 or ASTM-C-33 concrete sand	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand.
Underdrain Gravel	AASHTO-M-43	0.375" to 0.75"	
Geotextile Fabric	ASTM-D-4833 (puncture strength - 125 lb.) ASTM-D-4632 (Tensile strength - 300 lb.)	0.08" thick equivalent opening size of #80 sieve	Must maintain 125 gpm per sq. ft. flow rate. Note: a 4" pea gravel layer may be substituted for geotextiles meant to "separate" sand filter layers.
Underdrain Piping	F75B, Type P5 28 or AASHTO-M-278	4" - 6" rigid schedule 40 PVC or SDR35	3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes.

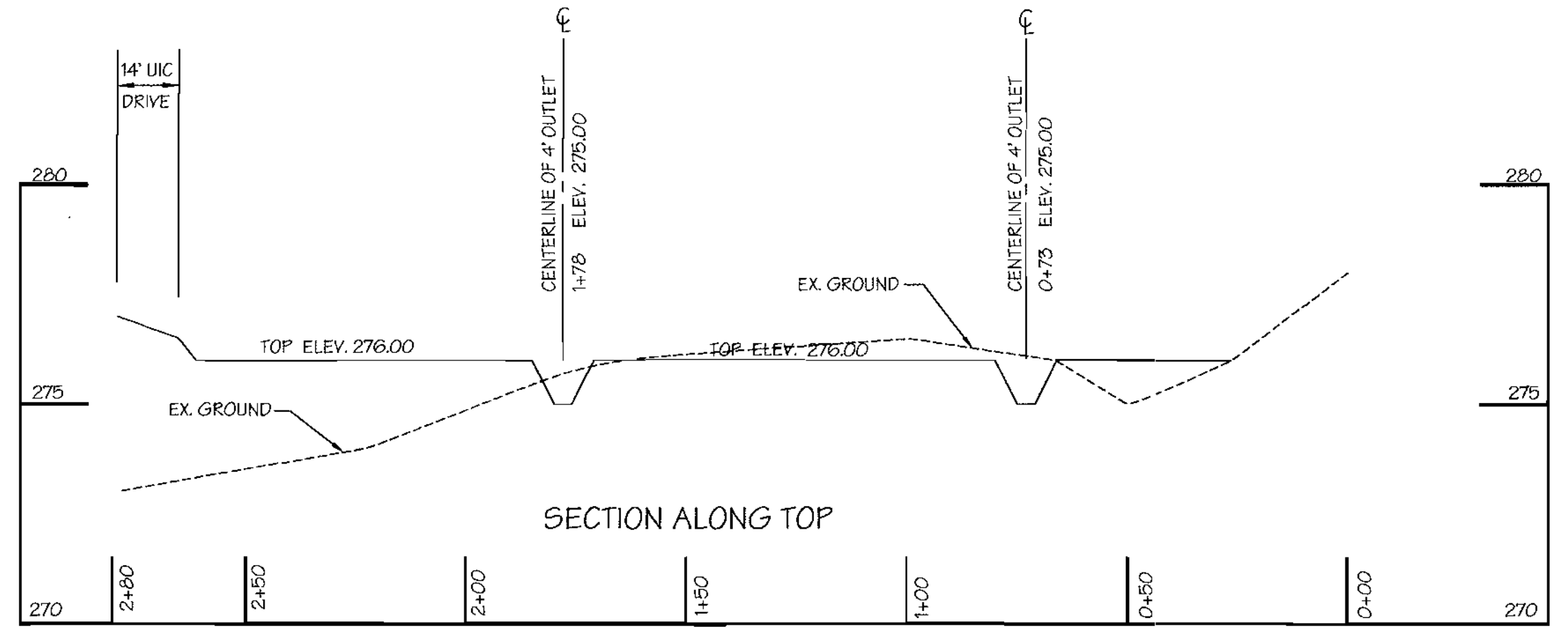
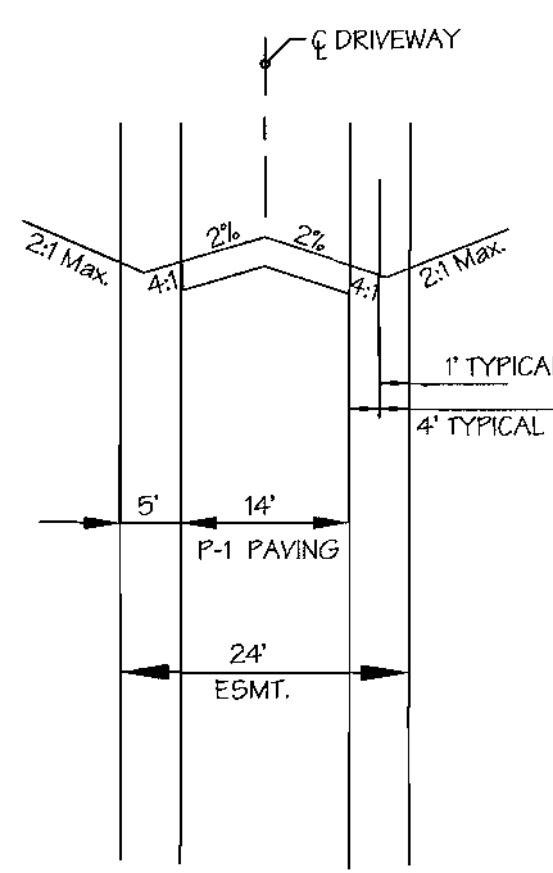


CONSTRUCTION SPECIFICATIONS FOR SAND FILTERS

- Material Specifications for Sand Filters: The allowable materials for sand filter construction are detailed in Table B.3.1. Refer to "Center For Watershed Protections and Maryland Department of the Environment", 2000. 2000 Stormwater Design Manual Volume II = Stormwater Design Appendices, Baltimore Maryland; as amended and shown hereon.
- Sand Filter Construction Specifications: Provide sufficient maintenance access (ie: 12 foot wide road with legally recorded easement). Vegetated access slopes are to be a maximum of 10%; gravel slopes to 15%; paved slopes to 25%.
  - Absolutely no runoff is to enter the filter until all contributing drainage areas have been stabilized.
  - The surface of the filter bed is to be level.
  - Surface sand filters may be planted with appropriate grasses; see Appendix A.

FILTER NO.:	West / Filter 1	East / Filter 2
PreTreatment Sedimentation Chamber:	8' X 16'	11' X 22'
Invert PreTreatment Chamber:	274.00	274.00
Maximum Ponding Depth:	0.85	0.52
Ponding Elevation:	274.85	274.52
Top Elevation:	276.00	276.00
Filter Bed Dimensions:	9' X 18'	10' X 20'
Maximum Ponding Depth:	1	1
Maximum Ponding Elevation:	275.00	275.00
Top Elevation:	276.00	276.00
Overflow Spillway Elevation:	275.00	275.00
Elev. @ Top of Topsoil Layer:	274.00	274.00
Elev. @ Top of Sand Layer:	273.75	273.75
Elev. @ Top of Gravel Underdrain:	272.25	272.25
INVERT Pipe Outfall:	271.25	271.25
Perforated Pipe Size:	4"	4"

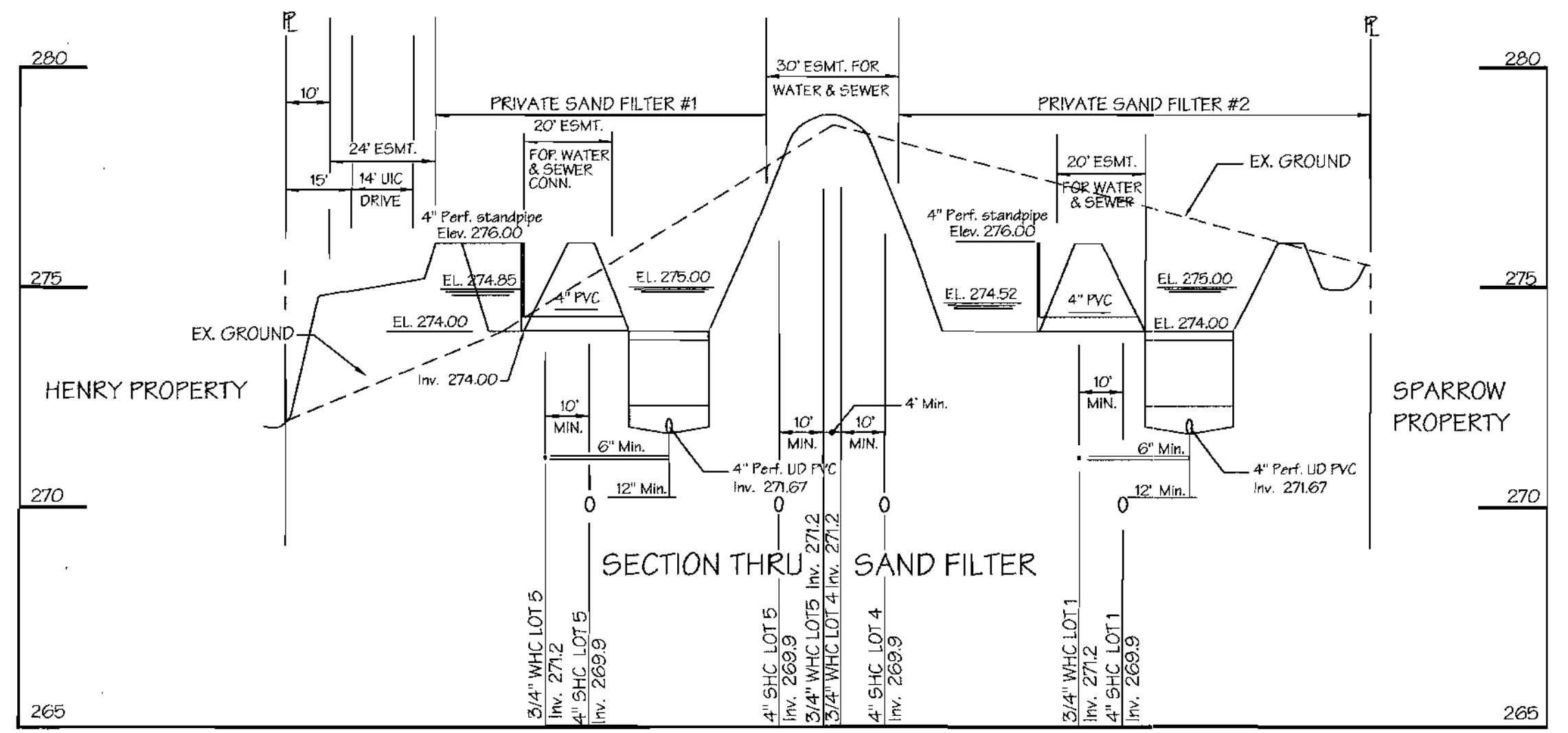
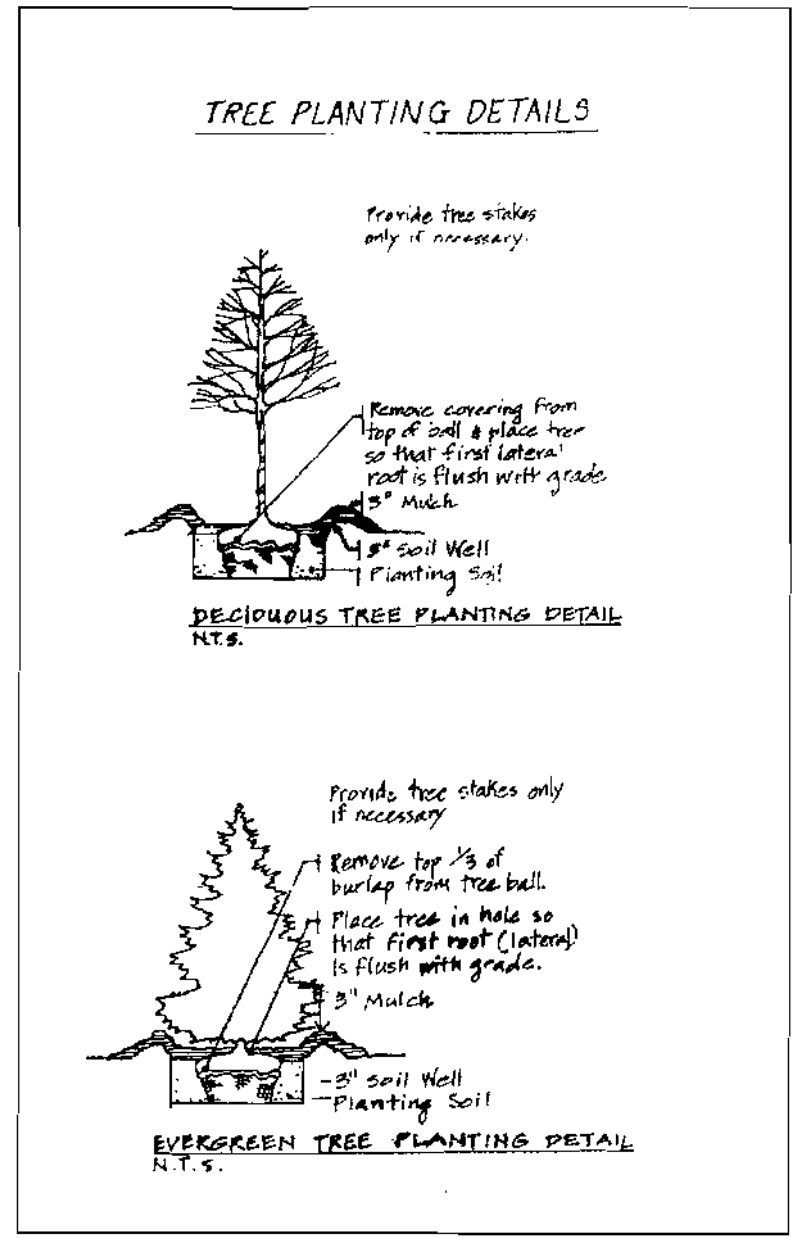
USE-IN-COMMON DRIVEWAY TYPICAL SECTION (MAYFIELD AVENUE TO EAST LOT 1)



OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED SURFACE STORMWATER FILTRATION SYSTEMS (SAND FILTER #1 AND SAND FILTER #2)

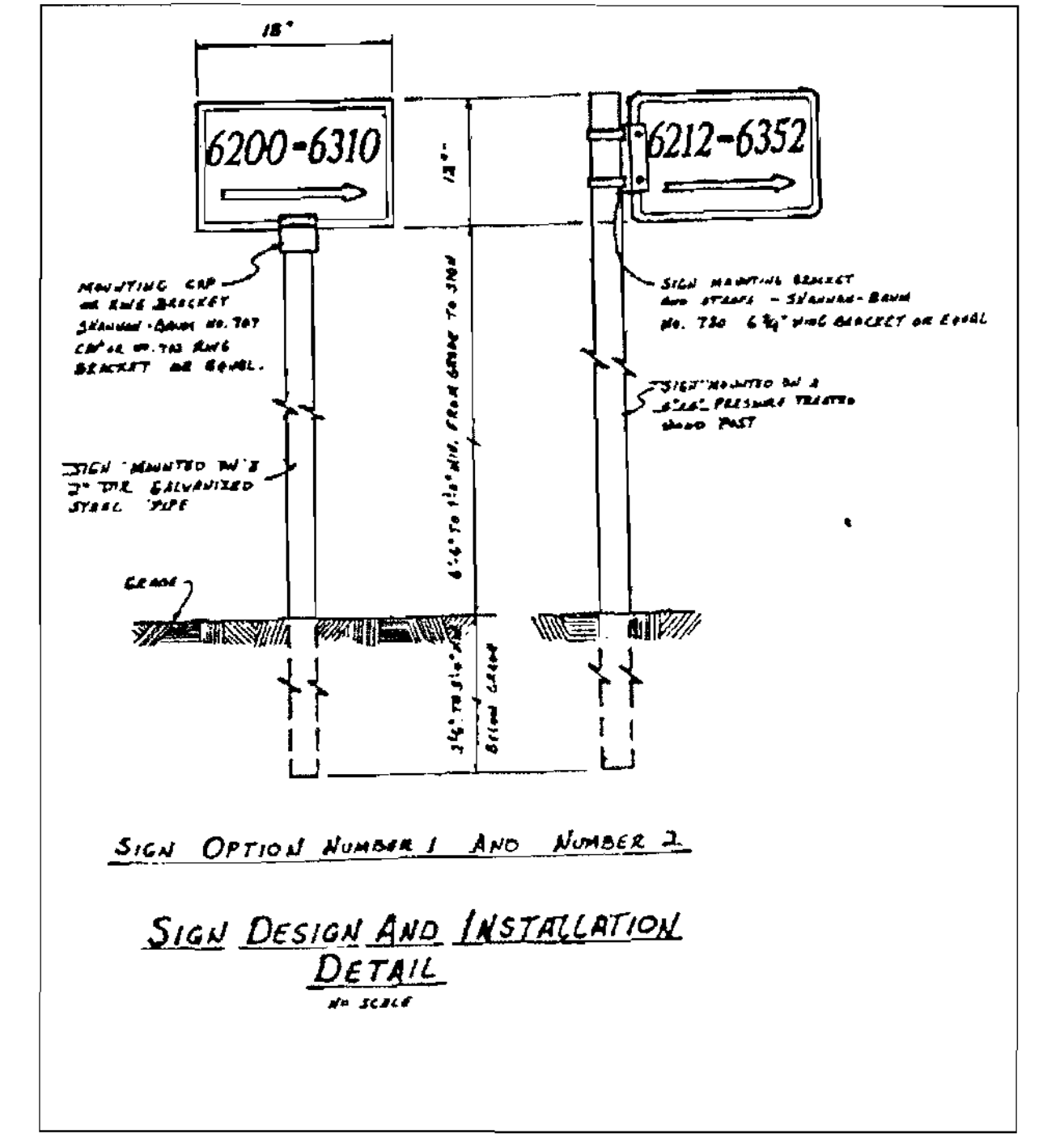
- The stormwater wetland facility shall be inspected annually and after major storms. Inspections shall be performed during wet weather to determine if the facility is functioning properly.
- The top and side slopes of the embankment shall be mowed a minimum of once per year, when vegetation reached 18 inches in height or as needed.
- Filters that have a grass cover shall be mowed a minimum of three (3) times per growing season to maintain a maximum grass height of less than 12 inches.
- Debris and litter shall be removed during regular mowing operations and as needed.
- Visible signs of erosion in the facility shall be repaired as soon as it is noticed.
- Remove silt when it exceeds four (4) inches deep in the forebay.
- When water ponds on the surface of the filter bed for more than 72 hours, the top few inches of the discolored material shall be replaced with fresh material. Proper cleaning and disposal of the removed materials and liquid must be followed by the owner.
- A log book shall be maintained to determine the rate at which the facility drains.
- The maintenance log book shall be available to Howard County for inspection to insure compliance with operation and maintenance criteria.
- Once the performance characteristics of the infiltration system have been verified, the monitoring schedule can be reduced to an annual basis unless the performance data indicates that a more frequent schedule is required.

USE-IN-COMMON DRIVEWAY TYPICAL SECTION (EAST LOT 1 TO END @ LOT 5 HOUSE)



SAND FILTER SECTIONS

SCALE: 1" = 30' Hor.  
1" = 3' Vert.

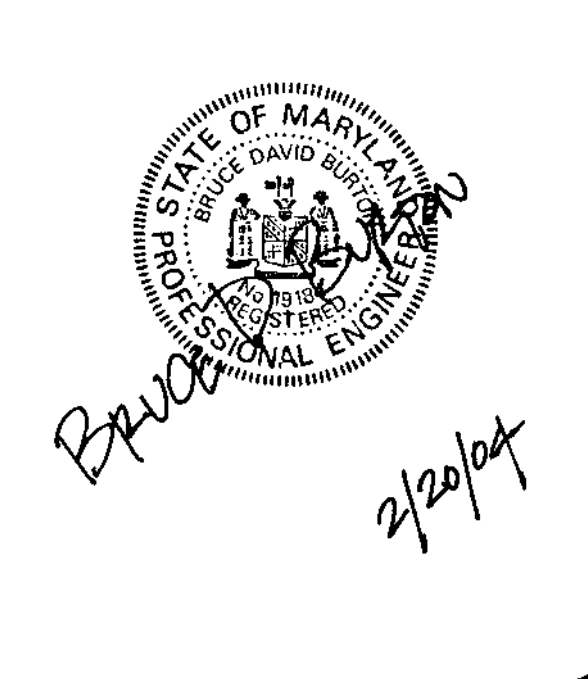


- SIGN SPECIFICATIONS
- The sign size shall be 12" x 18".
  - The sign material shall be .080 gauge thickness anodized aluminum.
  - The sign shall have a green background with 3" high white reflective numbers and arrow with a white reflective border.
  - Where a private road name is in use or part of a private Homeowner's Articles of Incorporation agreement the sign size will be enlarged to accommodate the necessary lettering but remain proportional to the above design limits.
  - The sign will be installed within the common driveway easement area as noted on the final plan.
  - Address number identification signs are to be provided under the tenants of the Homeowner's Association Incorporation or a Property Management Company for installation and maintenance in accordance with the Department of Planning and Zoning Address Numbering System and per Section 3.503(a) of the Howard County Code - Public Signs. Maintenance/repair and replacement of the address number directional signs will be the responsibility of the Homeowner's Association or a Property Management Company.
  - Compliance regarding the installation of the new address number directional signs will be enforced by the Department of Inspections, Licenses and Permits at the time of final approval for issuance of the Use and Occupancy permits.

APPROVED: DEPARTMENT OF PLANNING AND ZONING  
*[Signature]* 3/16/04  
 CHIEF, DEVELOPMENT ENGINEERING DIVISION  
*[Signature]* 3/16/04  
 CHIEF, DIVISION OF LAND DEVELOPMENT  
*[Signature]* 3/16/04  
 DIRECTOR

ENGINEER'S CERTIFICATE  
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON A REASONABLE ASSESSMENT OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]* 3/20/04  
 SIGNATURE OF ENGINEER - BRUCE D. BURTON  
 DEVELOPER'S CERTIFICATE  
 I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING 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. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.  
*[Signature]* 2.20.04  
 SIGNATURE OF DEVELOPER - MARK GHEILER

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET TECHNICAL REQUIREMENTS.  
*[Signature]* 3/12/04  
 NATURAL RESOURCE CONSERVATION SERVICE  
 THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
*[Signature]* 3/12/04  
 HOWARD SOIL CONSERVATION DISTRICT



No.	Date	By	Description

LDE, INC.  
 9250 Rumsey Road, Suite 106, Columbia, MD. 21045  
 (410) 715-1070 (301) 596-3424 (410) 715-9540 (Fax)  
 DESIGNED: EDS  
 DRAWN: KBW  
 CHECKED: BDB  
 DATE: 8/20/03  
 Sediment & Erosion Control and Landscape Notes & Details  
**JENMAR HOMES**  
 AT MAYFIELD  
 LOTS 1, 4, 5, 6 & OPEN SPACE LOT 3  
 PARCEL 403  
 Tax Map No. 37 Grid 15  
 1st Election District, Howard County, Maryland  
 Previous Submittals: WPO3-74, F02-12B & F02-129  
 OWNER/DEVELOPER: KRIG CORPORATION  
 3403 Old Post Drive  
 Baltimore, Maryland 21208  
 410-466-5693  
 SCALE: N/A  
 DRAWING: 4 of 4  
 JOB NO.: 03-032  
 FILE NO.: SDP04-32