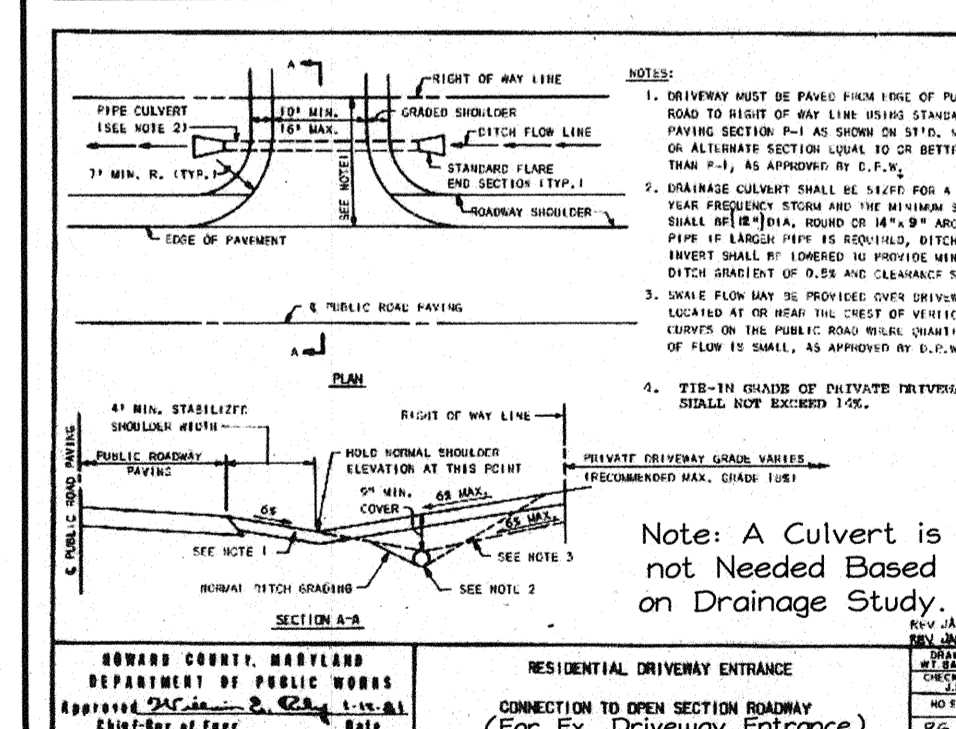
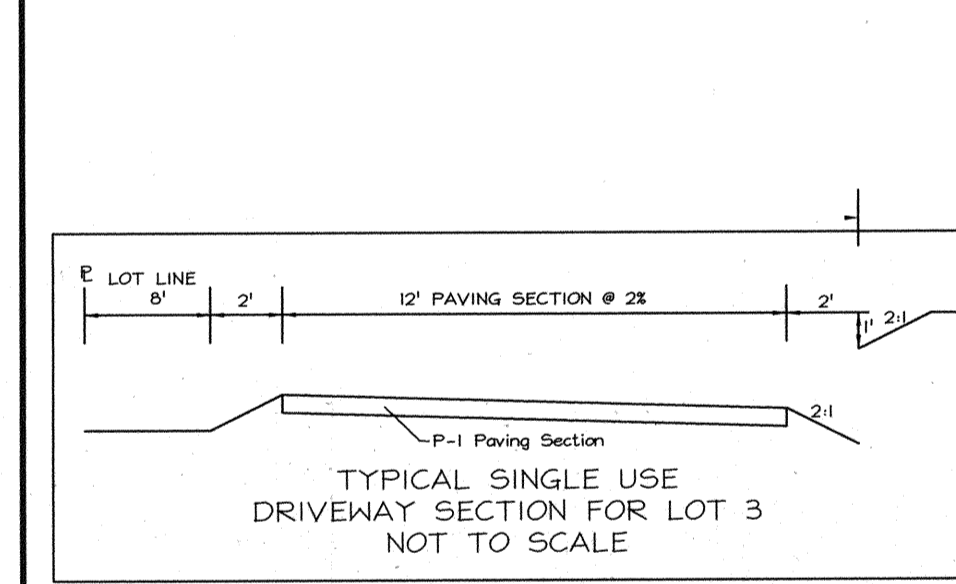
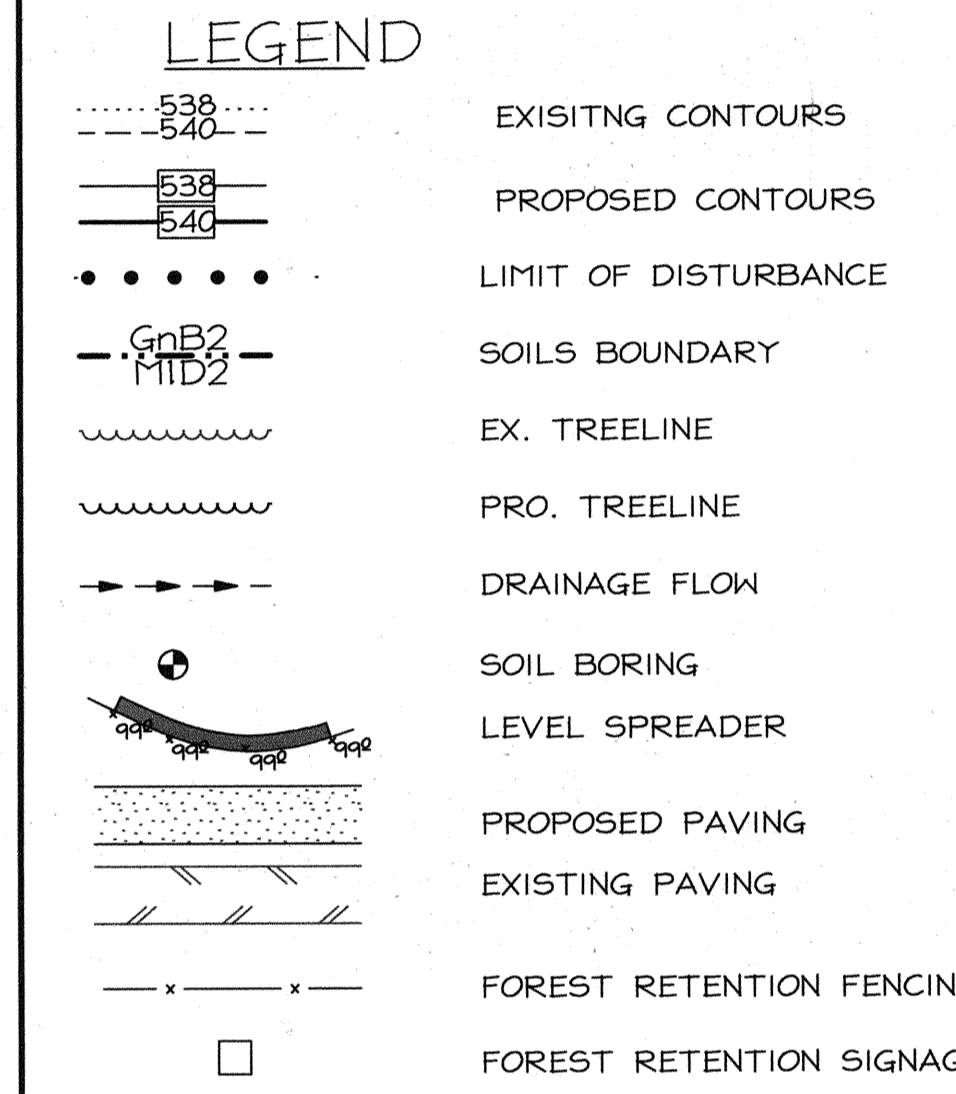


SCHEDULE A PERIMETER LANDSCAPE EDGE		
Category	Adjacent to Roadways	Adjacent to Perimeter Properties
Landscape Type	B	B
Linear Feet of Roadway Frontage/Perimeter	N/A	1354'
Credit for Existing Vegetation (Yes, No, Linear Feet) (Describe below if needed)	N/A	YES-1070 L.F.
Credit for Wall, Fence or Berm (Yes, No, Linear Feet) (Describe below if needed)	N/A	NO
Number of Plants Required Shade Trees Evergreen Trees Shrubs	N/A	Using 284 L.F. 1:50=6 1:40=7
Number of Plants Provided Shade Trees Evergreen Trees Other Trees (2:1 substitution) Shrubs (10:1 substitution) (Describe plant substitution credits below if needed)	N/A	6 Shade 7 Evergreens

Comments: * 1354 L.F. - 1070 L.F. = 284 L.F. required perimeter to be planted.
 42) L.F. - 637 L.F. = 6 shade @ 1:50
 6 shade will be provided.
 42) L.F. - 637 L.F. = 7 shade @ 1:40
 7 Evergreens will be provided.

LANDSCAPE PERIMETER TABLE			
Perimeter No.	Perimeter Length	Buffer Type	Adjacent Land Use
1	800 L.F.	B	SFD
2	200 L.F.	B	SFD
3	354 L.F.	B	OPEN SPACE
Total	1354 L.F.		



APPROVED: DEPARTMENT OF PLANNING AND ZONING

[Signature] 12/7/04
 CHIEF, DEVELOPMENT ENGINEERING DIVISION

[Signature] 12/7/04
 CHIEF, DIVISION OF LAND DEVELOPMENT

FOREST PROTECTION PROCEDURES - PRECONSTRUCTION PHASE

Protection of the Forest Edge

1.) The edge of the woods to be protected will be marked (staked or flagged) in the field per the limits of disturbance shown in the approved Site Development Plan prior to the start of construction activity. All areas within protective fences are to be considered 'off limits' to any construction activities. The protective fencing shall be installed at the outside edge of forested areas and specimen trees to be retained and should be combined with sediment control devices when possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

Edge of Forested Area - 1 foot of protective radius/inch of DBH or an eight foot protective radius, whichever ever is greater.

2.) Construction activities expressly prohibited within the preservation areas are:

Placing or stockpiling backfill or top soil in protected areas
 Felling trees into protected area
 Driving construction equipment into or through protected areas
 Burning in or in close proximity to protected areas
 Stocking or storing supplies of any kind
 Concrete wash-off areas
 Conducting trenching operations
 Grading beyond the limits of disturbance
 Parking vehicles or construction equipment
 Removal of root mat or topsoil
 Siting and construction of:

Utility lines
 Access roads
 Impervious surfaces
 Stormwater management devices
 Staging areas

3.) Protective fencing (see Figure 'Protective Fencing') shall be the responsibility of the general contractor. The general contractor shall affix signs to the fencing at 25' minimum intervals indicating that these areas are 'Forest Retention Area' or 'Specimen Tree' (see Figures 'Signage'). The general contractor shall take great care to assure the restricted areas are not violated and that root systems are protected from smothering, flooding, excessive wetting from de-watering operations, off-site run-off, spillage, and drainage or solutions containing materials hazardous to tree roots.

4.) The general contractor shall be responsible for any tree damaged or destroyed within the preservation areas whether caused by the contractor, his agents, employees, sub-contractors, or licensees.

5.) Foot traffic shall be kept to a minimum in the protective areas.

6.) All trees which are not to be preserved within fifty feet of any tree preservation areas are to be removed in a manner that will not damage those trees that are designated for preservation. It is highly recommended that tree stumps within this fifty foot area be ground out with a stump grinding machine to minimize damage.

7.) The general contractor shall designate a 'wash out' area on-site for concrete trucks which will not drain toward a protected area.

8.) A pre-construction meeting shall be held with local authorities before any disturbance has taken place on site.

FOREST PROTECTION PROCEDURES - CONSTRUCTION PHASE

Forest and tree conditions should be monitored during construction and corrective measures taken when appropriate.

The following shall be monitored:

- Soil compaction
- Root injury - prune and monitor; consider crown reduction
- Limb injury - prune and monitor
- Flooded conditions - drain and monitor; correct problem
- Drought conditions - water and monitor; correct problem
- Other stress signs - determine reason, correct and monitor

FOREST PROTECTION PROCEDURES - POST CONSTRUCTION PHASE

The following measures shall be taken:

1.) Corrective measures if damages were incurred due to negligence:

- Stress reduction
- Removal of dead or dying trees. This may be done only if trees pose an immediate safety hazard.

2.) Removal of temporary structures:

- No burial of discarded materials will occur on-site within the conservation area.
- No open burning within 200 feet of a wooded area.
- All temporary forest protection structures will be removed after construction.
- Remove temporary roads by removing stone or broadcasting mulch; pre-construction elevation should be maintained.
- Aerate compacted soil.
- Replant disturbed sites with trees, shrubs and/or herbaceous plants.
- Retain signs for retention areas or specimen trees.
- A County official shall inspect the entire site.

3.) Future protection measures:

- Howard County shall accept the dedication of the appropriate forest protection easements.

FOREST CONSERVATION EASEMENT STANDARD NOTES

The Forest Conservation Easement has been established to fulfill the requirements of Section 16.1200 of the Howard County Code, Forest Conservation Act. No clearing, grading or construction is permitted within the Forest Conservation Easement; however, forest management practices as defined in the Deed of Forest Conservation Easement are allowed.

APPENDIX E
FOREST CONSERVATION WORKSHEET

ACRES (1/10 ACRES)	
I. BASIC SITE DATA	
Gross Site Area	3.7 Ac.
Area Within 100 Year Floodplain	0.0 Ac.
*Area Within Agricultural Use of Preservation Parcel (If Applicable)	0.0 Ac.
Net Tract Area	3.70 Ac.
Land Use Category (R-RD, R-RMD, R-S, C/10, I)	R-S
II. INFORMATION FOR CALCULATIONS	
A. Net Tract Area	3.7
B. Reforestation Threshold (20% x A)	0.74
C. Afforestation Minimum (5% x A)	0.56
D. Existing Forest on Net Tract Area	1.9
E. Forest Areas to be Cleared	1.4
F. Forest Areas to be Retained	0.5
III. REFORESTATION CALCULATIONS	
A. Net Tract Area	3.7
B. Reforestation Threshold (20% x A)	0.74
C. Existing Forest on Net Tract Area	1.9
D. Forest Areas to be Retained	1.4
E. Forest Areas Cleared Above Reforestation Threshold (D-F, If F equals or is greater than B, Alternate 1)	0.5
F. Forest Areas Cleared Below Reforestation Threshold (D-F, If F is less than B, Alternate 2)	0.24
G. Forest Areas Retained Above Reforestation Threshold (B-F, If applicable)	0.48
H. Forest Areas Retained Below Reforestation Threshold (F-B, Retention Credit, If applicable)	0.0

SELECT THE ALTERNATIVE THAT APPLIES

1. CLEARING ABOVE THE THRESHOLD ONLY

If existing forests to be retained equal or are greater than the reforestation threshold (If F equals or is greater than B), the following calculations apply:

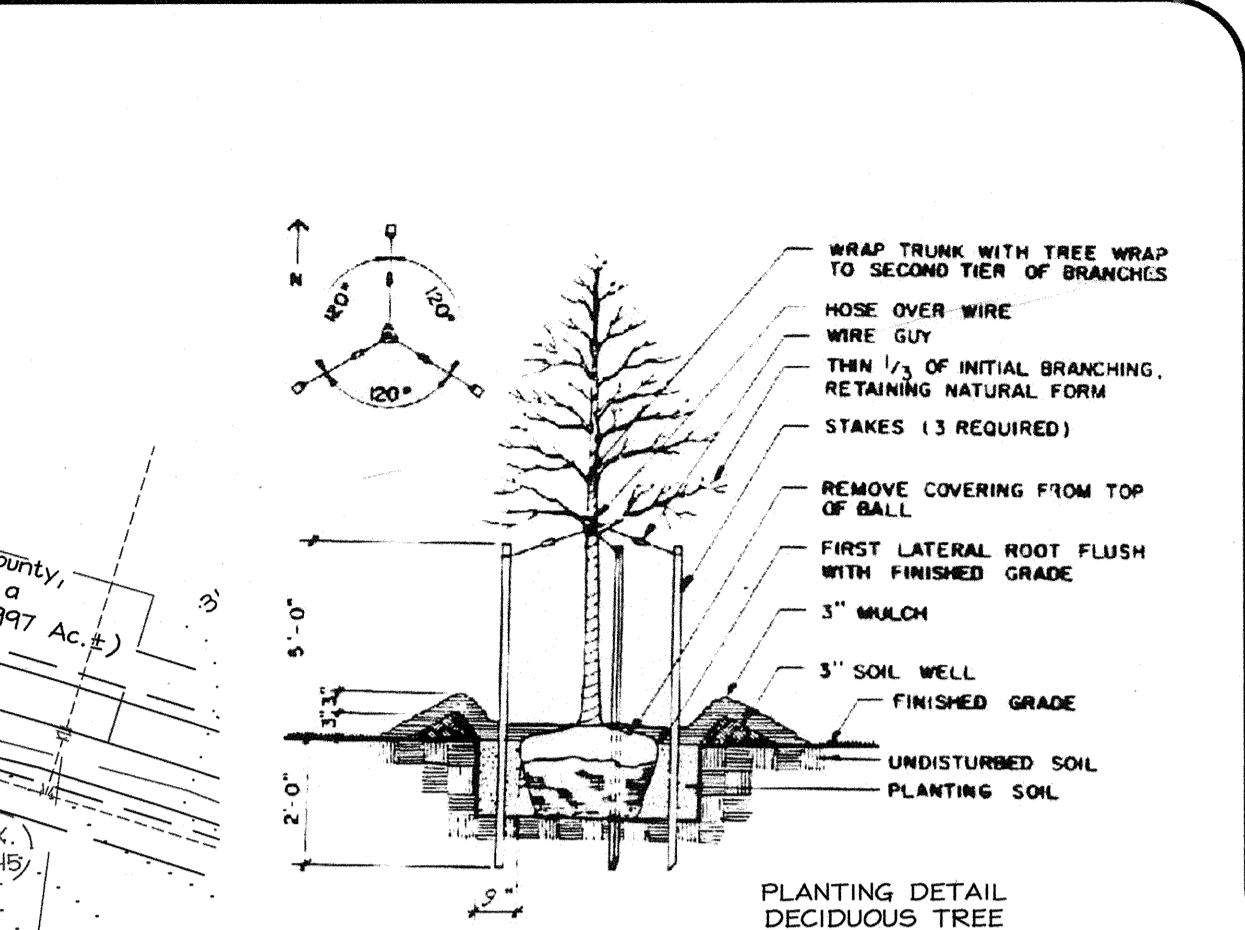
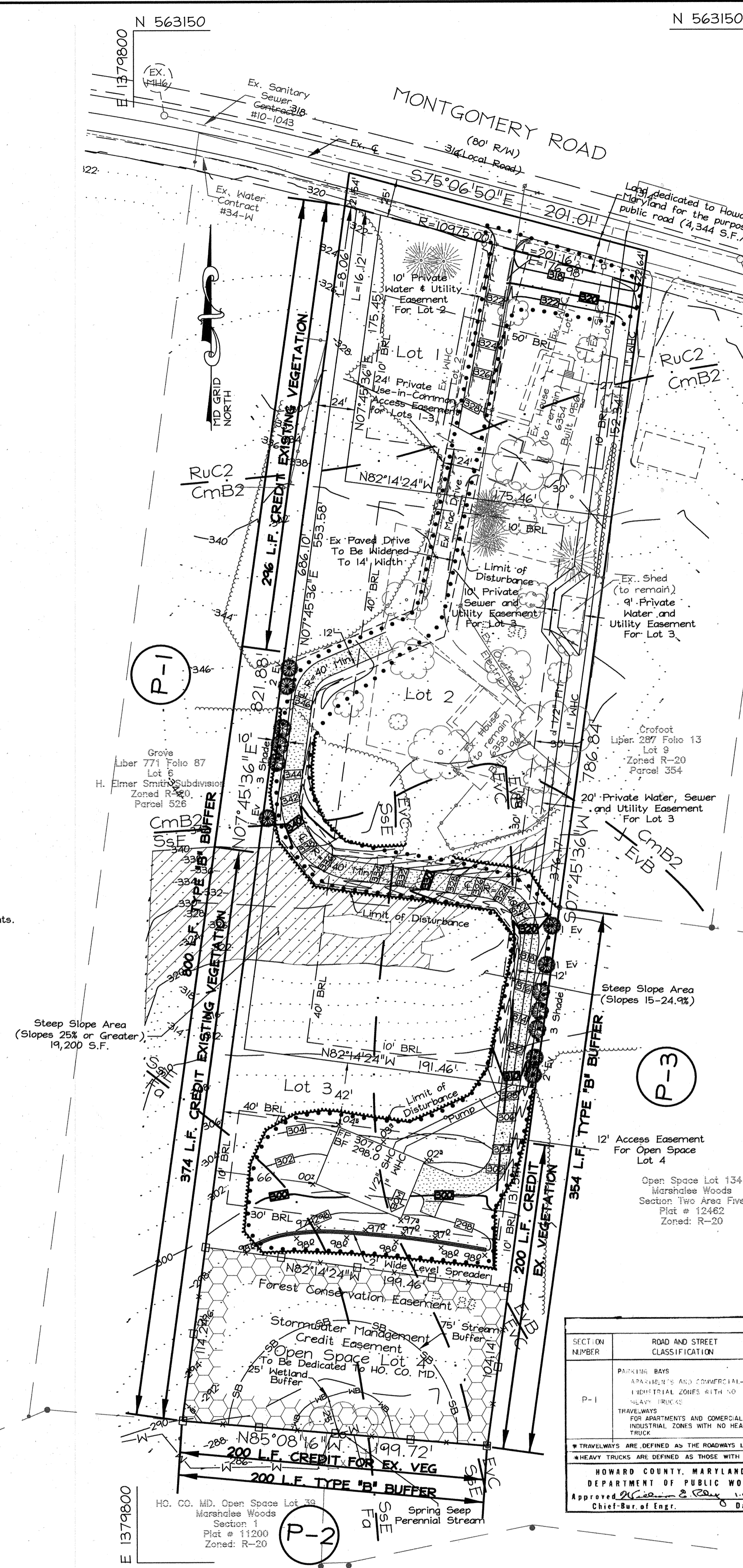
Reforestation for clearing above threshold
 $G \times 1/4 = 0 \times 0.25 = 0$

Credits for forest areas retained above threshold
 $I = \text{Retention Credit} = 1.9$

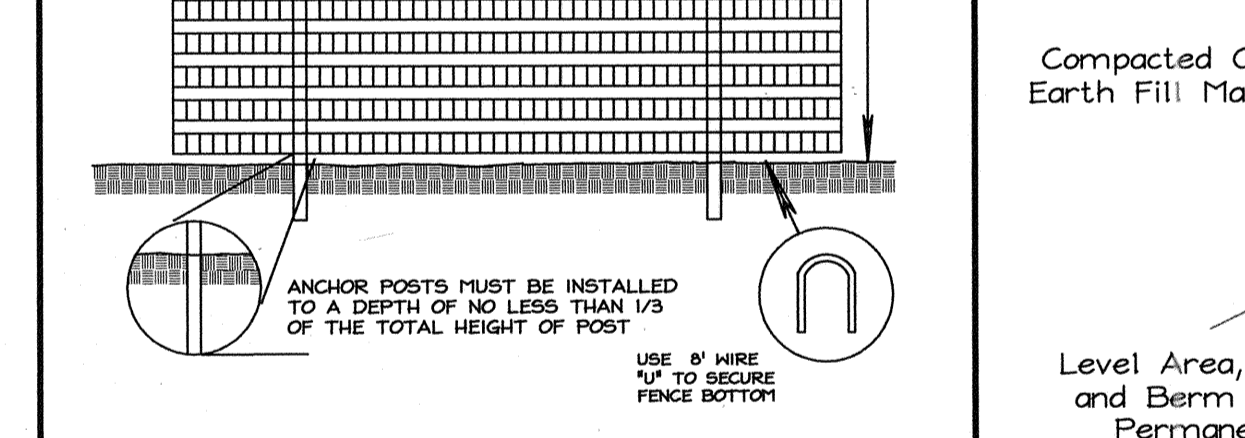
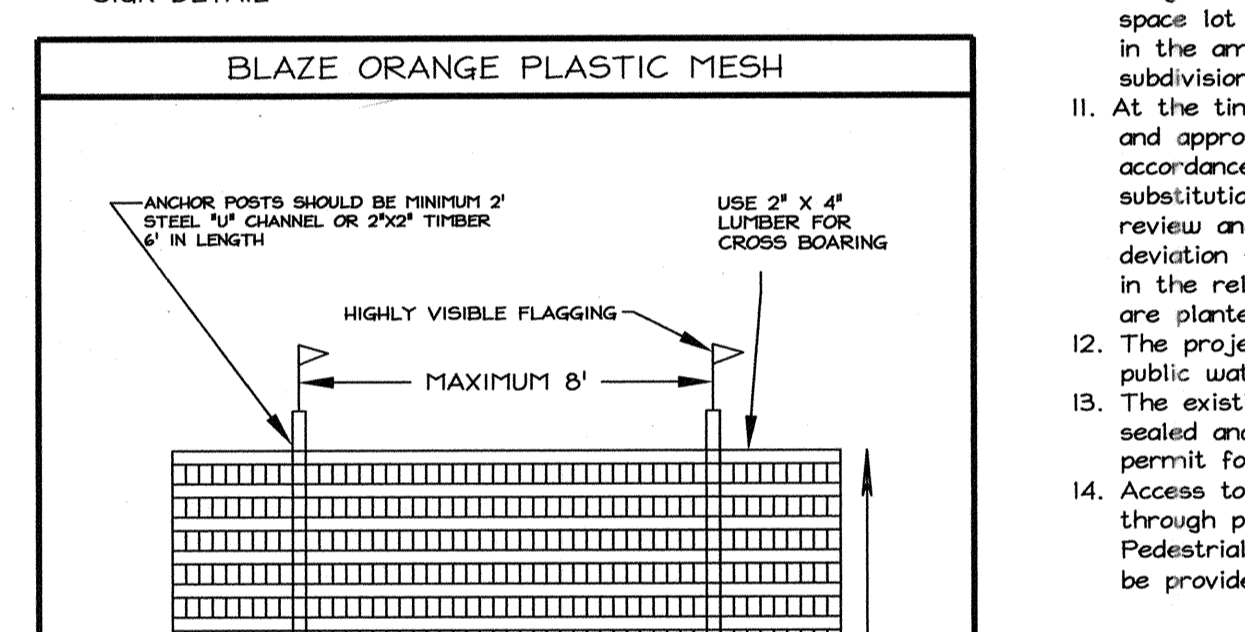
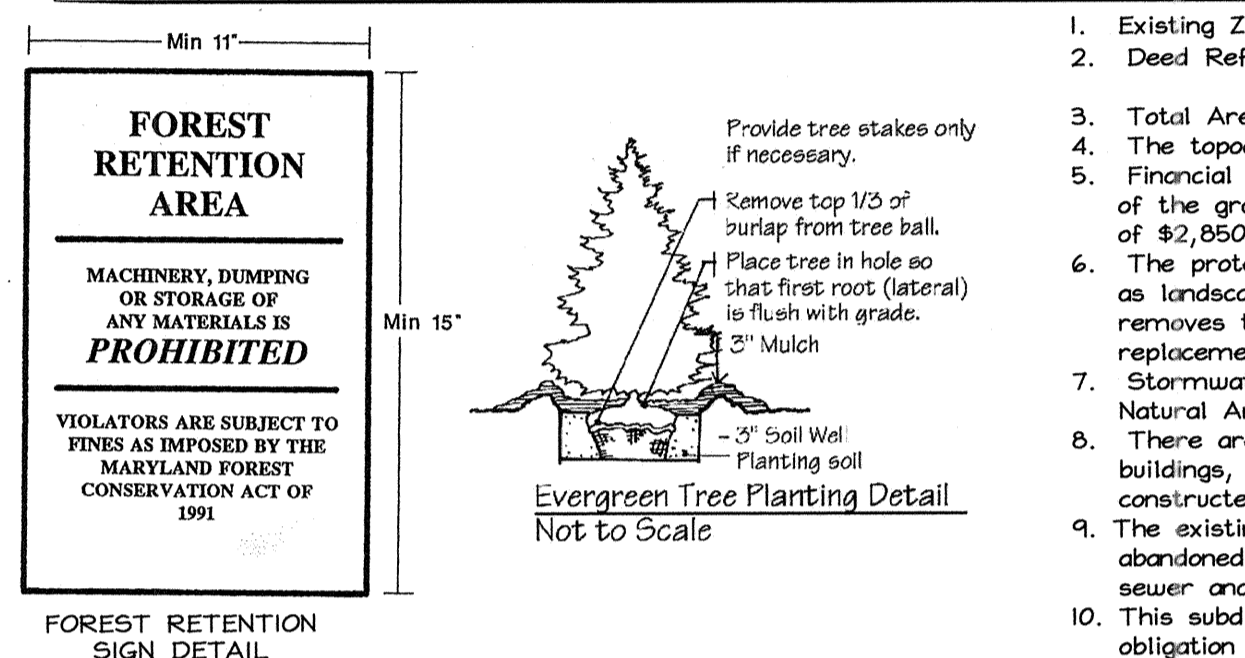
Total Reforestation required
 $(G \times 1/4) - I = 0 - 1.9 = -1.9$

BREAK-EVEN POINT: (Existing Forest Equal To Reforestation Threshold) + (20% of Existing Forest above threshold)
 $B.E.P. = 0.74 + 20\%(1.9) = 0.97 \text{ Ac.}$ Clearing permitted without Mitigation = 0.93 Acres

*The developer shall meet the required forest obligation via retention of 0.50 acres of existing forest onsite and payment of a Fee-in-Lieu of providing the additional 0.77 acres of forest in the amount of \$16,770.00.



LANDSCAPE SCHEDULE					
SYMBOL	QNTY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
6		Red Maple	Acer rubrum	2'-2 1/2" Caliper	B & B
7		White Pine	Pinus Strobus 'Heritage'	5'-6" HT.	B & B



SOILS LEGEND		
HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION
B	RuC2	Rumford Loamy Sand, 5% to 10% slopes moderately eroded.
C	CmB2	Chillum Gravelly Loam, 1% to 5% slopes moderately eroded well drained.
A	EvC	Evesboro Loamy Sand, 5% to 15% Slopes excessively drained.
A	EvB	Evesboro Loamy Sand, 1% to 5% Slopes excessively drained.
D	Fa	Fallingston loam, 1% to 5% slopes poorly drained.
B	SeE	Sassafras, 15% to 40% slopes well drained.

SECTION NUMBER	ROAD AND STREET CLASSIFICATION	PAVEMENT MATERIALS
P-1	PARKING BAYS APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 1" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)
	TRAVELWAYS FOR APARTMENTS AND COMMERCIAL INDUSTRIAL ZONES WITH NO HEAVY TRUCKS	1" BIT. CONC. SURFACE 1" BIT. CONC. BASE 4" GRADED AGGREGATE BASE (GAB)



Scale: 1" = 2000'

NOTES:

- Existing Zoning: R-20
- Deed Reference: Parcel 89 Liber 7254 Folio 530
- Total Area of the Lots: 3.6831 Ac.
- The topography shown is field run by LDE, Inc. November 2003.
- Financial Surety for the required landscaping must be posted as part of the grading permit for the Site Development Plan surety in the amount of \$2,950.00.
- The protection of the retained landscaped trees and vegetation used as landscape credit is the responsibility of the builder. If the builder removes the credited landscaping, the builder is responsible for replacement in accordance with the Howard County Landscape Manual.
- Stormwater Management for this project is provided by Grass Swales, Natural Area Conservation Credit and Sheet Flow to Buffer credit.
- There are existing dwellings located on Lot 1 and 2 to remain. No new buildings, extensions or additions to the existing dwelling are to be constructed at distances less than the zoning regulations require.
- The existing septic system and existing sewage disposal easement shall be abandoned upon connection of the existing dwelling on lot 1 and 2 to the public sewer and in accordance with Health Department abandonment procedures.
- This subdivision complies with the forest conservation requirements with an obligation of 1.27 acres that is provided by 0.50 acres of retention on space lot 4 and payment of a fee-in-lieu for providing the remaining 0.77 acres in the amount of \$16,770.00. No surety is required for retention on a minor subdivision.
- At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved landscape plan may result in denial or delay in the release of Landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
- The project is located in the metropolitan district. All lots will be served by public water and public sewer.
- The existing well which once served the existing house on Lot 1 must be sealed and abandoned by a licensed Well Driller prior to issuance of the building permit for Lot 3.
- Access to the lot 4 open space (dedicated to HO. CO. MD.) will be provided through previously dedicated open space lot 3A, Marshalee Woods, Section 1. Pedestrian access for lots 1 thru 3 and periodic access for maintenance vehicles will be provided by the 12' wide access easement.

DEVELOPER'S / BUILDER'S CERTIFICATION

I 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 further certify that upon completion a Letter of Landscape Installation, accompanied by an executed One Year Guarantee of Plant Materials will be submitted to the Department of Planning and Zoning.

WALTER & LAVERNE BROWN, INC.
 SIGNATURE OF DEVELOPER / BUILDER 11/23/04

REVISIONS		
No.	Date	Description

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

DESIGNED: SDH
 SDH
 DRAWN: JLM
 MDL
 CHECKED: BDB
 DATE: 8/20/04

Supplemental, Landscape and Forest Conservation Plan

SCALE: 1" = 50'

DRAWING: 1 of 1

JOB NO.: 03-037

FILE NO.: F04-173

OWNER/DEVELOPER: Walter E. Brown, Jr.
 Laverne E. Brown
 6354 Montgomery Road
 Elkridge, Maryland 21075-5916
 410-756-0241

PROFESSIONAL CERTIFICATION:

[Signature] 11/23/04
 Steve Heiss, Qualified Professional, MFCFA

11/23/04