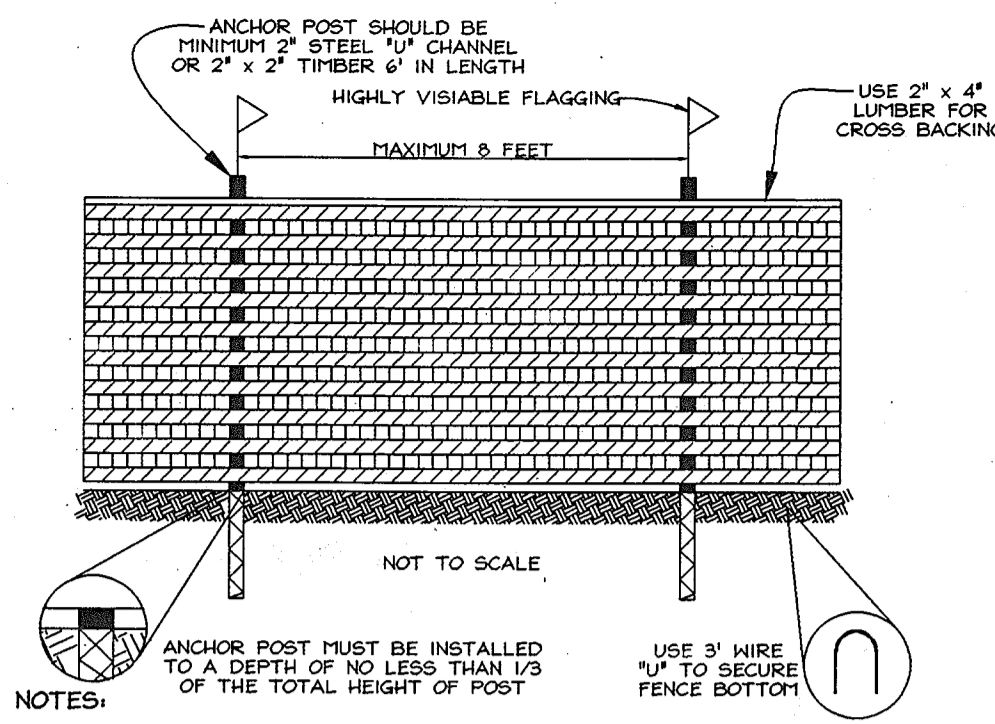
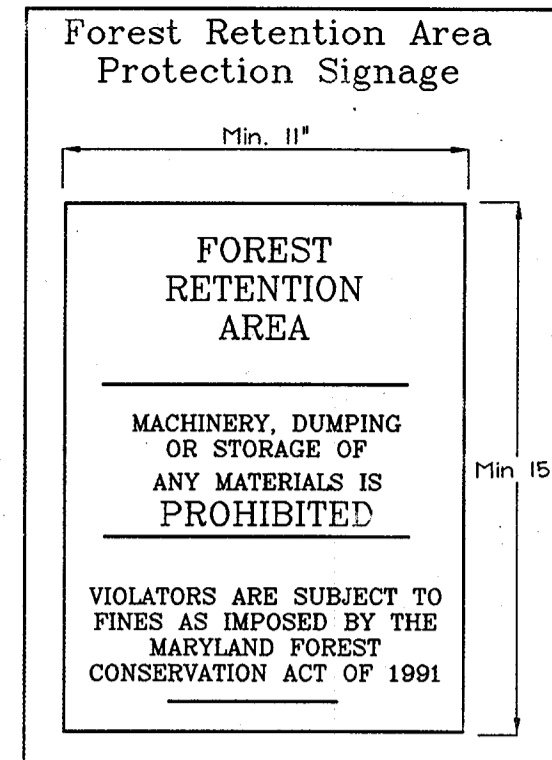


Forest Tree Protection and Management Notes

- Tree protection devices shall be installed prior to any grading or land clearing.
 - After the boundaries of the retention areas have been staked and flagged and before any disturbance has taken place a pre-construction meeting with the Howard County Inspector is required.
 - Provide maintenance to tree protection devices and signage to maintain their integrity throughout the duration of the project.
 - Attachment of signs to tree protection devices to maintain their integrity throughout the duration of the project.
 - Any changes made to the Forest Conservation Plan shall be made with the prior approval of the Howard County Dept. of Planning and Zoning.
 - No burial of discarded material is permitted within the Forest Conservation and Planting areas.
 - No open burning within 100 feet of wooded areas is permitted.
 - Post construction phase.
 - Inspect existing trees around the perimeter of the site for signs of root or trunk damage and excessive soil compaction.
 - Evaluate dead or dying trees for hazard tree removal. (Not including trees internal to the forest conservation easement.)
 - All temporary forest protection devices will be removed after construction.
 - Following completion of construction, prior to use, the county inspector shall inspect the entire site for compliance with this Forest Conservation Plan.
- * A licensed Arborist or Forester should be retained for this service as needed.

Soil Protection Zone Notes

- The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.
- Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line or 40% of the height of the trees, whichever is greater.
- No construction activity is permitted within the Soil Protection Zone.
- If soil has been compacted or grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan.
- Root pruning shall occur prior to the beginning of construction.
- Where the Soil Protection Zone must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional.
- Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.
- Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized.
- Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth to exceed 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.



TREE PROTECTION DETAIL
BLAZE ORANGE PLASTIC MESH

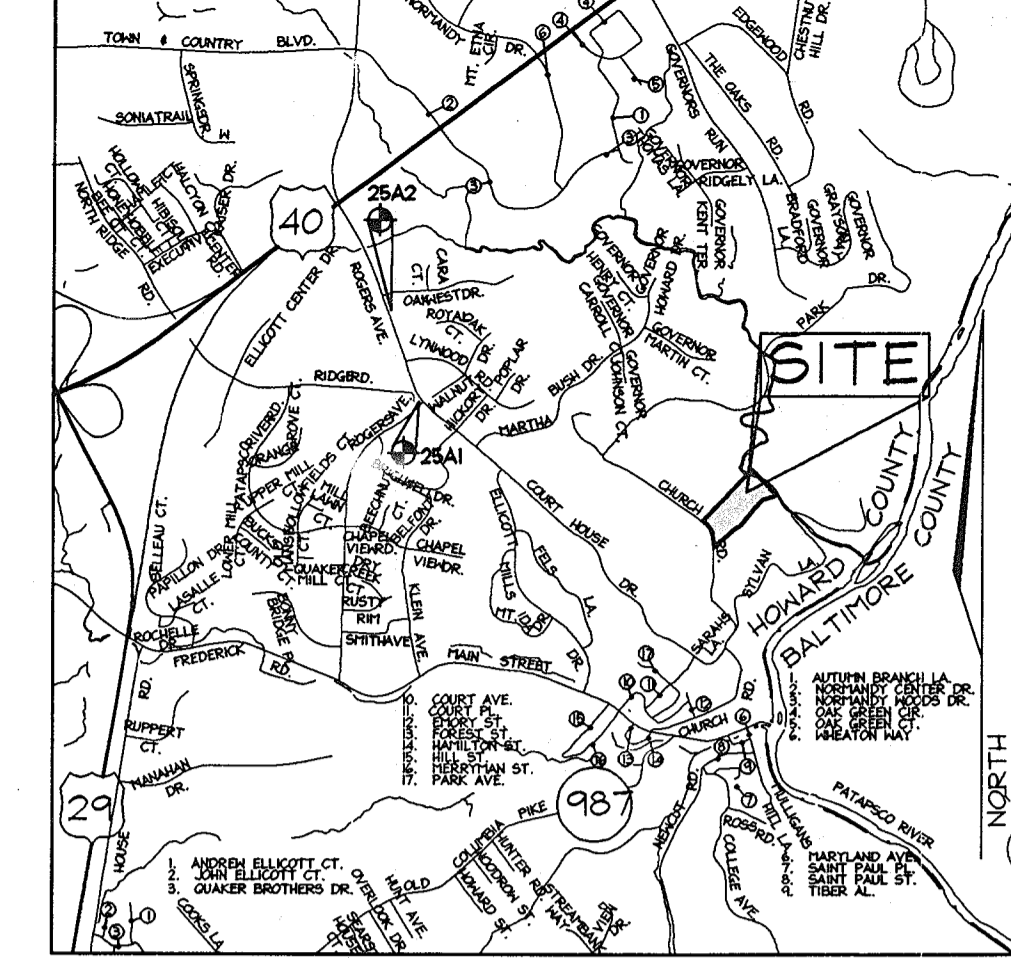
NO.	DBH	COMMON NAME	SCIENTIFIC NAME	CONDITION
ST-1	38"	yellow poplar	Liriodendron tulipifera	Good
ST-2	40"	yellow poplar	Liriodendron tulipifera	Fair
ST-3	38"	yellow poplar	Liriodendron tulipifera	Good
ST-4	45"	yellow poplar	Liriodendron tulipifera	Good

FOREST CONSERVATION NARRATIVE
This Forest Conservation Plan was prepared in accordance with the Howard County Forest Conservation Manual. The total tract area of the site is 5.47 acres, with 0.4 acres in 100-year floodplain. There are no wetlands on site. The net tract area is 5.07 acres, with 3.62 acres of forest cover. Forest clearing on site is 1.87 acres, contained within proposed lots 1 & 2. 1.75 acres of forest will be retained within Forest Conservation Easement 1. Clearing areas shown for clearing purposes may be retained for no credit. No Surety is required for Minor Subdivisions.

FOREST STAND NARRATIVE
F-1, 3.62 Acres, is a mature upland hardwood forest stand. The overstory is composed of yellow poplar, Liriodendron tulipifera, green ash, Fraxinus pennsylvanica, silver maple, Acer saccharinum and tree of heaven, Ailanthus altissima. The understorey is composed of natural regeneration of over-story species, spice bush, Lindera benzoin, Microstegium virginicum, Honey suckle, Lonicera japonica, wild strawberry, Erigeron virginiana, and fern species. The forest stand is in good condition with an open understorey and few invasive species. Some wind damage is apparent, with recent wind thrown trees on the steep slopes. This forest stand is considered a high priority for retention due to steep slopes, stream buffers and specimen trees.
L-1, 1.46 Acres. This area surrounds the existing house on site and consists of maintained lawn areas and various ornamental landscaping trees and gardens.

LEGEND

- Existing Contour: ---382---
- Proposed Contour: ---48253---
- Spot Elevation: 48253
- Direction of Flow: --->---
- Existing Trees to Remain: [Symbol]
- Stabilized Construction Entrance: [Symbol]
- Silt Fence: [Symbol]
- Limit of Disturbance: ---LOD---
- Forest Stand Line: [Symbol]
- Existing Contour: [Symbol]
- Specimen Tree: ST-1 [Symbol]
- Forest Retention Sign: [Symbol]
- Prop. Duelling: [Symbol]
- 15% to 24.9% slopes: [Symbol]
- slopes of 25% or greater: [Symbol]
- Forest Clearing: [Symbol]
- Forest Conservation Easement - Retention: [Symbol]



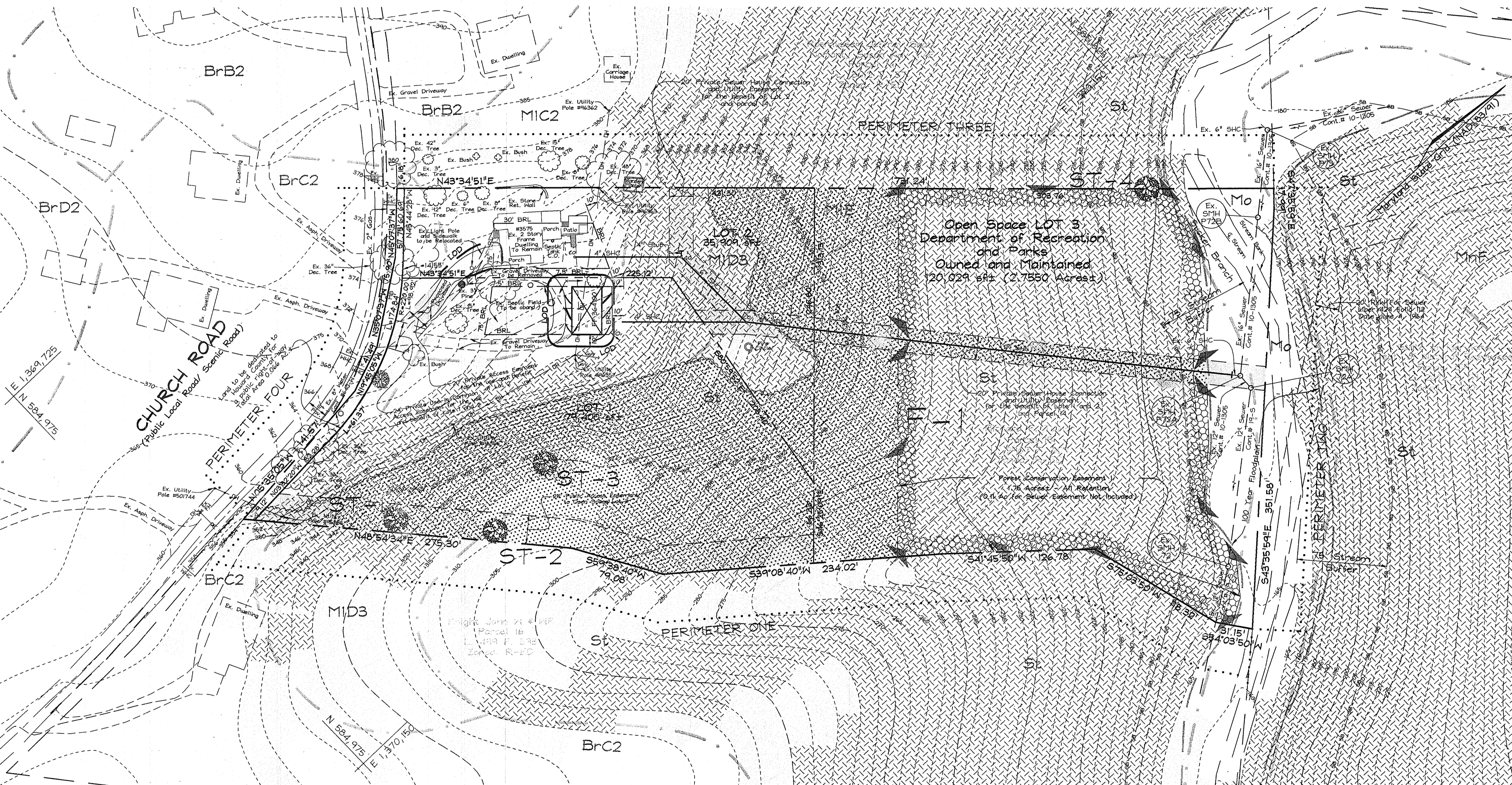
VICINITY MAP
SCALE: 1"=2000'

FOREST CONSERVATION EASEMENT TABLE

EASEMENT	TYPE	AREA (ACRES)
1	FOREST RETENTION	1.75
TOTAL		1.75

GENERAL NOTES

- Subject property zoned R-ED per 10/18/93 Comprehensive Zoning Plan.
- Coordinates based on NAD 83/91 Maryland Coordinate System as projected by Howard County Geodetic Control Stations no. 25A1 and no. 25A2. Denotes approximate location (see vicinity map).
Sta. 25A1 N 586,557.503 (ft) E 1,366,847.149 (ft) Elev. 397.095 (ft)
Sta. 25A2 N 587,502.680 (ft) E 1,366,556.401 (ft) Elev. 349.887 (ft)
N 179,071.1751 (m) E 416527.2241 (m) Elev. 106.3411 (m)
- Gross area of site: 5.4681 ac.±
- Two foot contour topography based on a Field Run Topographic Survey prepared by Hoffman & Hoffman in July 25, 2001. Five foot Contour topography based on Howard County 1998 Aerial Topographic Surveys.
- There are no wetlands on-site.
- This property is within the Metropolitan District.
- Soils map No. 16.



FOREST CONSERVATION WORKSHEET

Net Tract Area	Acres
A. Total Tract Area	5.47
B. Area Within 100 Year Floodplain	0.4
C. Other deductions	-
D. Net Tract Area	5.07
Zoning Use Category: HDR	
Land Use Category	
E. Afforestation Minimum (20 % x D)	1.01
F. Conservation Threshold (25 % x D)	1.27
Existing Forest Cover	
G. Existing Forest on Net Tract Area	3.62
H. Forest Area Above Conservation Threshold	2.35
Breakeven Point	
I. Forest Retention Above Threshold with no Mitigation	1.74
J. Clearing Permitted without Mitigation	1.88
Proposed Forest Clearing	
K. Forest Areas to be Cleared	1.87
L. Forest Areas to be Retained	1.75
Planting Requirements	
M. Reforestation for Clearing Above Threshold	0.47
N. Reforestation for Clearing Below the Threshold	0.00
P. Credit for Retention Above Conservation Threshold	0.48
Q. Total Reforestation Required	0
R. Total Afforestation Required	0
S. Total Reforestation and Afforestation Requirement	0



EXPLORATION RESEARCH, INC.
ENVIRONMENTAL CONSULTANTS
8318 Forrest Street, Ellicott City, MD 21043
Tel: (410) 750-1150 Fax: (410) 750-7350

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 2/23/04
CHIEF, DEVELOPMENT ENGINEERING DIVISION
[Signature] 2/23/04
CHIEF, DIVISION OF LAND DEVELOPMENT

FOREST STAND ANALYSIS TABLE

KEY	TYPE OF COMMUNITY	AREA Acres	SOIL INFORMATION			HABITAT VALUE	EXISTING VEGETATION (Type and approx. %)	STAND CHARACTERISTICS			FOREST AREA IN SENSITIVE ENVIRONMENTS
			SOIL TYPE	TYPICAL FOREST COVER	WOODLAND SUITABILITY INDEX			SIZE AVG. DIAM.	AGE	GENERAL CONDITIONS	
F-1	Upland Hardwoods	3.62	ST MO MID3 MIE	N/A N/A Mixed upland Hardwood	N/A 95+ 65-74 65-74	Poor Good Fair Fair	Yellow poplar 50% Silver maple 30% Tree of heaven 10% Green ash 10%	16-25 8-12 10-14 8-12	48-75 24-36 30-42 32-48	Good	Steep slopes
L-1	Lawn	1.46	MID3 MIE MID2 BrC2 ST	Mixed upland Hardwoods Oaks & other Hardwoods N/A	65-74 65-74 65-74 N/A	Fair Fair Good Fair Fair	N/A	N/A N/A N/A	N/A	N/A	N/A

SOILS LEGEND

SYMBOL	NAME / DESCRIPTION	SOIL GROUP
BrC2	Brandywine loam, 8 to 15 percent slopes, moderately eroded	C
MIE2	Minor loam, 8 to 15 percent slopes, moderately eroded	B
MID3	Minor loam, 15 to 25 percent slopes, severely eroded	B
MIE	Minor loam, 25 to 45 percent slopes	B
Mo	Mixed alluvial land	
St	Stony land	

OWNER/DEVELOPER
Richard F Taylor and Kathleen P Taylor
3575 Church Road
Ellicott City, Maryland 21043-4401

COMBINED FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN
R. TAYLOR PROPERTY
LOTS 1, 2 AND OPEN SPACE LOT 3
TAX MAP 25, GRID 8
2ND ELECTION DISTRICT
PARCEL 15
HOWARD COUNTY, MARYLAND

FSH Associates
Engineers Planners Surveyors
8318 Forrest Street, Ellicott City, MD 21043
Tel: 410-750-2251 Fax: 410-750-7350
E-mail: FSHAssociates@cs.com

DESIGN BY: DSH/RAB
DRAWN BY: DSH/RAB
CHECKED BY: SLH
SCALE: 1"=50'
DATE: Feb. 10, 2004
W.O. No.: 3181
SHEET No.: 1 OF 1