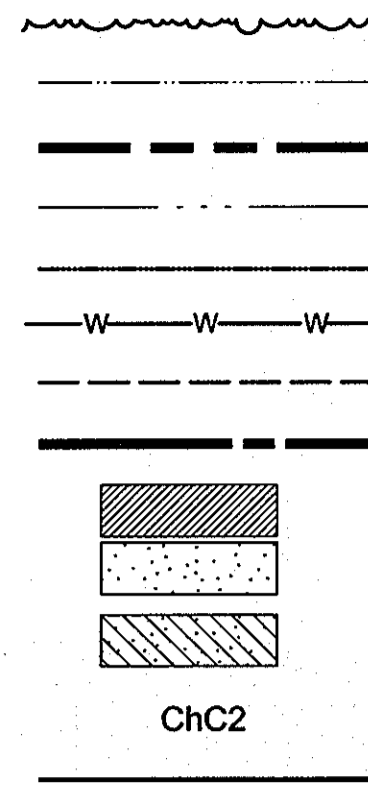
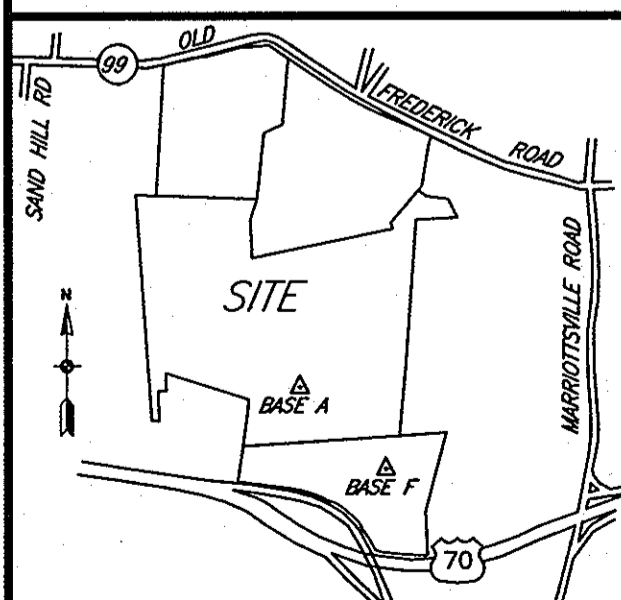
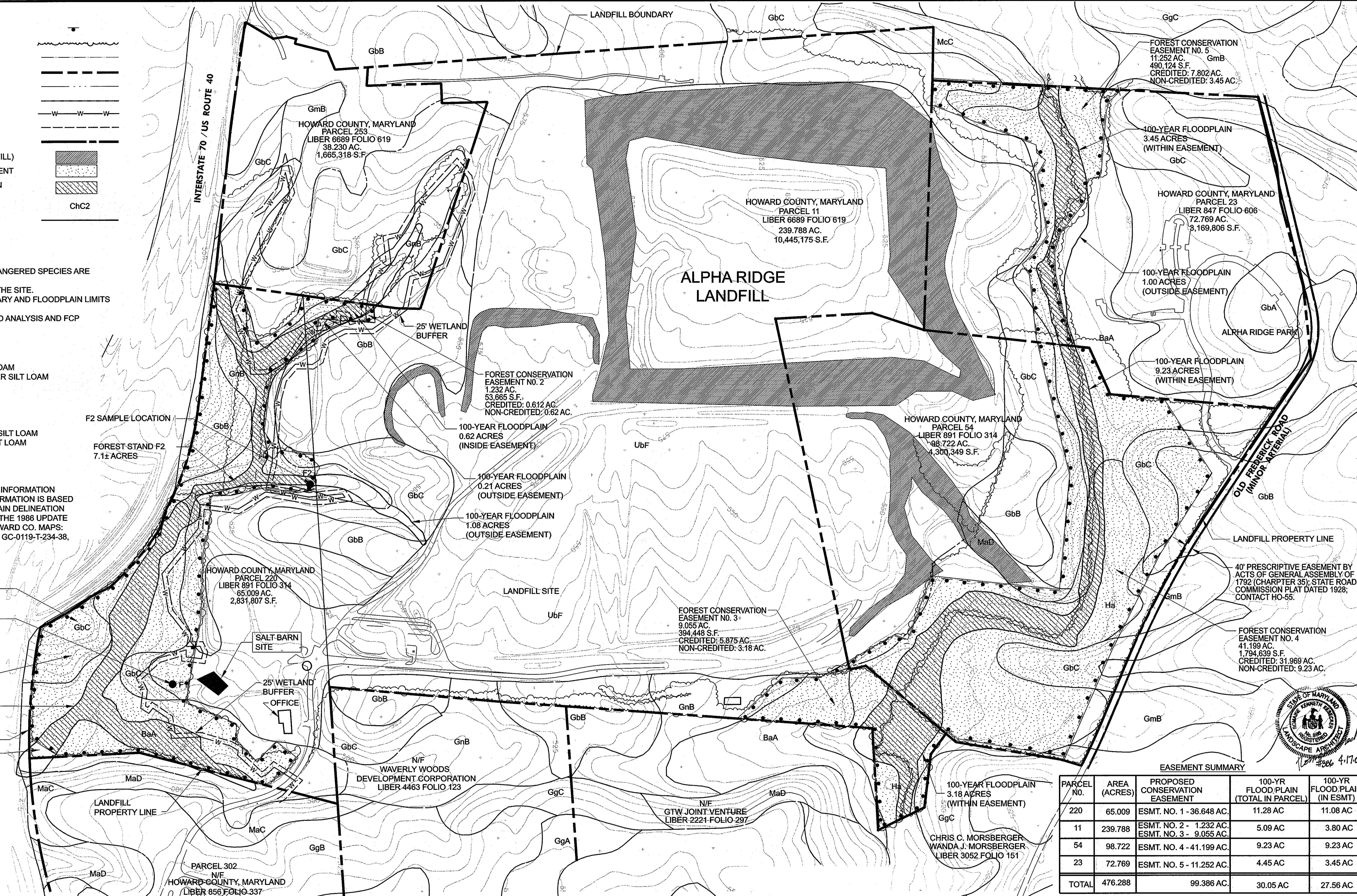


- LEGEND**
- FOREST CONSERVATION SIGN
 - EXISTING TREE LINE
 - EXISTING STREAM
 - PARCEL BOUNDARY
 - CONSERVATION EASEMENT
 - 100-YEAR FLOODPLAIN
 - WETLAND BOUNDARY
 - 25' WETLAND BUFFER
 - 50' STREAM BUFFER
 - STEEP SLOPES (RELATED TO LANDFILL)
 - PROPOSED CONSERVATION EASEMENT
 - NON-CREDITED FLOODPLAIN WITHIN CONSERVATION EASEMENT
 - SOILS TYPE
 - SOILS AREA BOUNDARY



- NOTE:**
1. NO RARE, THREATENED OR ENDANGERED SPECIES ARE KNOWN TO EXIST ON THE SITE.
 2. NO SPECIMEN TREES EXIST ON THE SITE.
 3. EXISTING TOPOGRAPHY BOUNDARY AND FLOODPLAIN LIMITS PROVIDED BY HOWARD COUNTY.
 4. SEE SHEET 2 FOR FOREST STAND ANALYSIS AND FCP WORKSHEETS.
 5. SOILS DATA
 - F1
 - Ba - BAILE SILT LOAM
 - CgC2 - CESTER GRAVELLY SILT LOAM
 - ChB2, ChC2, ChC3, ChD2 - CHESTER SILT LOAM
 - Ha - HATBORO SILT LOAM
 - M1D2 - MANOR LOAM
 - F2
 - Ba - BAILE SILT LOAM
 - CgB2, CgC2 - CESTER GRAVELLY SILT LOAM
 - ChB2, ChC2, ChC3 - CHESTER SILT LOAM
 - GnB2 - GLENVILLE SILT LOAM
 - Ha - HATBORO SILT LOAM
 - M1D2 - MANOR LOAM
 6. EXISTING 100 YEAR FLOODPLAIN INFORMATION PROVIDED BY HOWARD CO. INFORMATION IS BASED ON THE 1978 FLOODPLAIN DELINEATION BY CENTURY ENGINEERING AND THE 1986 UPDATE BY BERNARD JOHNSON, INC. HOWARD CO. MAPS: GC-0119-T-36-38, GC-0119-T-35-38, GC-0119-T-234-38, GC-0119-T-35-39.

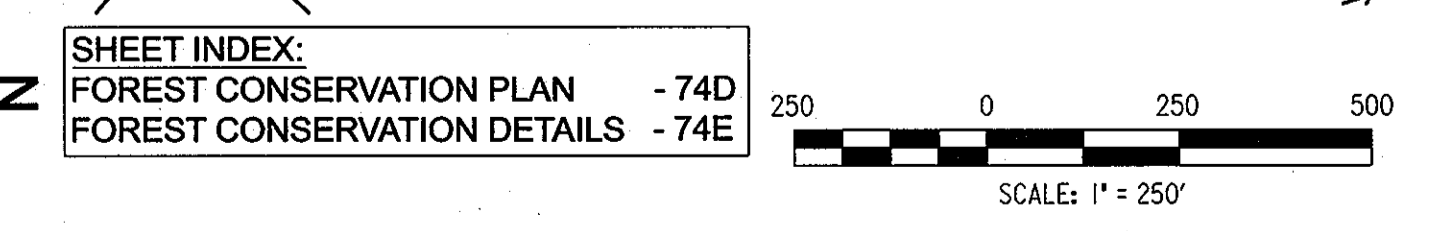


40' PRESCRIPTIVE EASEMENT BY ACTS OF GENERAL ASSEMBLY OF 1792 (CHAPTER 35); STATE ROADS COMMISSION PLAT DATED 1928; CONTACT HO-55.

FOREST CONSERVATION EASEMENT NO. 4
41,199 AC.
1,704,639 S.F.
CREDITED: 31,969 AC.
NON-CREDITED: 9.23 AC.

EASEMENT SUMMARY

PARCEL NO.	AREA (ACRES)	PROPOSED CONSERVATION EASEMENT	100-YR FLOODPLAIN (TOTAL IN PARCEL)	100-YR FLOODPLAIN (IN ESMT)
220	65.009	ESMT. NO. 1 - 36,648 AC.	11.28 AC	11.08 AC
11	239.788	ESMT. NO. 2 - 1,232 AC.	5.09 AC	3.80 AC
54	98.722	ESMT. NO. 4 - 41,199 AC.	9.23 AC	9.23 AC
23	72.769	ESMT. NO. 5 - 11,252 AC.	4.45 AC	3.45 AC
TOTAL	476.288	99.386 AC.	30.05 AC	27.56 AC



COMBINED FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Director: *Renita G. Gable* 4/17/07
 Chief, Development Engineering Division: *J. Krista-Moorehead* 4-12-07
 Date: 4-12-07

OWNER
 HOWARD COUNTY GOVERNMENT
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD 21043
 410-313-2330

PREPARED BY
URS
 4 NORTH PARK DRIVE
 HUNT VALLEY, MARYLAND
 TEL: (410) 785-7220

DES: DTM/RKK			
DRN: WJG			
CHK: DTM/RKK			
DATE: 11/06	DTM	ADDED NEW SHEET TO SDP 97-128	4/17/07
BY	NO.	REVISION	DATE

ALPHA RIDGE LAND FILL
 TAX MAP 10 - GRID 2.3 & 7
 TAX MAP 16 - GRID 8
 3RD ELECTION DISTRICT - HOWARD COUNTY, MARYLAND
 SCALE: 1"=250'
 SHEET 74D OF 89

FOREST STAND ANALYSIS TABLE

KEY	A. TYPE OF COMMUNITY	B. AREA	C. SOIL INFORMATION			D. EXISTING VEGETATION (Dominant Species and Approximate %)	E. STAND CHARACTERISTICS			F. FOREST AREA IN SENSITIVE ENVIRONMENTS (Area)	G. HABITAT VALUE
			1. Soil Types	2. Typical forest cover for soil type*	3. Woodland Suitability Index		1. Size (Diam)	2. Age	3. General Conditions		
F1	Tree Layer Maple/Oak	23.82 Acres	Chester	Oak	74-84	Red Maple 50%	2"-10"	25	Fair	Floodplain 7.2 Acres Wetland and Buffers 5.3 Acres Total 12.5 Acres	Good
			Baile	Oak/Maple	65-74	White Oak 20%	20"-28"	40			
			Hatboro Manor	Oak/Maple/ Holly Mixed Oak	95 65-74	Hickory 15% Tulip Poplar 10%	8"-15" 20"-28"	25 25			
	Shrub Layer					Spice Bush 60% Blackhaw Viburnum 40%					
	Ground Layer					Invasives 95%					

FOREST STAND ANALYSIS TABLE

KEY	A. TYPE OF COMMUNITY	B. AREA	C. SOIL INFORMATION			D. EXISTING VEGETATION (Dominant Species and Approximate %)	E. STAND CHARACTERISTICS			F. FOREST AREA IN SENSITIVE ENVIRONMENTS (Area)	G. HABITAT VALUE
			1. Soil Types	2. Typical forest cover for soil type*	3. Woodland Suitability Index		1. Size (Diam)	2. Age	3. General Conditions		
F2	Tree Layer Cherry/Walnut	7.12 Acres	Chester	Oak	75-84	Black Cherry 50%	8"-15"	20	Fair	Floodplain 3.5 Acres Wetland and Buffers 0.8 Acres Total 4.3 Acres	Good
			Baile	Oak/Maple	65-74	Black Walnut 25%	8"-15"				
			Glenville Manor	Wet Tolerant Hardwoods Mixed Oak	65-74 65-74	Tulip Poplar 15% Red Oak 10%	12"-20" 10"-15"				
	Shrub Layer					Spice Bush 100%					
	Ground Layer					Invasives 100%					

FOREST STAND DELINEATION NARRATIVE – PARCEL 220

Stand F1

Stand F1 is a middle successional Maple/Oak forest. It is about 40 to 50 years old in its growth. Very little understory exists due to deer browse. What little understory that does exist is either not palatable (Spice Bush) or too high to browse (Blackhaw Viburnum). The ground layer consists of predominately invasive species (Garlic Mustard, Tear Thumb, Japanese Stilt Grass etc) with a few Jack-in-the-Pulpit and Christmas Ferns scattered throughout, an more so in wet areas. Not withstanding the deer browse trees seem to be in good condition and growing well.

Because 76% of Stand F1 covers environmentally sensitive lands (wetlands and 100 year floodplain) it is recommended that the forest be preserved in conservation easement. In addition, the canopy is in good condition and dense. With control of the deer population the understory may recover.

Stand F2

Stand F2 is an early successional mixed hardwood forest. It is about 20 to 30 years old in its growth. Very little understory exists due to deer browse. What little understory that does exist is not palatable (Spice Bush). The ground layer consists of Japanese Stilt Grass. Not withstanding the deer browse trees seem to be in good condition and growing well.

Because 81% of Stand F2 covers environmentally sensitive lands (wetlands and 100 year floodplains) it is recommended that the forest be preserved in conservation easement. While the canopy is open the trees are in good condition and will eventually fill in. The added area outside of the wetlands will act as additional filtering area for runoff.

**FOREST CONSERVATION WORKSHEET
VERSION 1.0
(Enter in Yellow Cells)**

NET TRACT AREA:

A. Total tract area.....=	476.29
B. Area within 100 year floodplain.....=	30.05
C. Area to remain in agricultural production.....=	0.00
D. Net tract area.....=	446.24

LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)

Input the number "1" under the appropriate land use zoning, and limit to only one entry.

ARA	MDR	IDA	HDR	MPD	CIA
0	0	0	0	0	1

E. Afforestation Threshold.....	15% x D =	66.94
F. Conservation Threshold.....	15% x D =	66.94

EXISTING FOREST COVER:

G. Existing forest cover (excluding floodplain).....=	83.70
H. Area of forest above afforestation threshold.....=	16.76
I. Area of forest above conservation threshold.....=	16.76

BREAK EVEN POINT:

J. Forest retention above threshold with no mitigation.....=	70.29
K. Clearing permitted without mitigation.....=	13.41

PROPOSED FOREST CLEARING:

L. Total area of forest to be cleared.....=	11.87
M. Total area of forest to be retained.....=	71.83

PLANTING REQUIREMENTS:

N. Reforestation for clearing above conservation threshold...=	2.97
P. Reforestation for clearing below conservation threshold...=	0.00
Q. Credit for retention above conservation threshold.....=	4.89
R. Total reforestation required.....=	0.00
S. Total afforestation required.....=	0.00
T. Total reforestation and afforestation required.....=	0.00

Note: Howard County proposes to provide 99.39 acres of Conservation Easement on the four parcels for FCP requirements of which 71.83 is "credited" FCE with 27.56 acres of "non-credited".

Min. 11"

FOREST RETENTION AREA

MACHINERY, DUMPING OR STORAGE OF ANY MATERIALS IS PROHIBITED

VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991

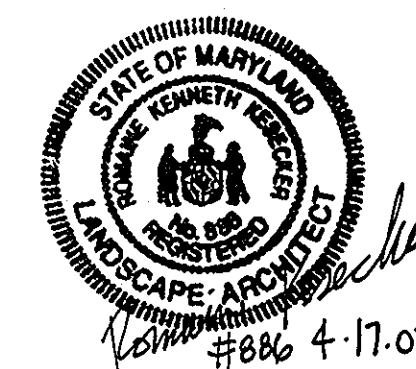
Min. 15"

Note:

- Signs shall be of high-impact, durable, waterproof plastic. Background color shall be white, and text / graphics color shall be forest green.
- Signs shall be mounted on metal 'T' or 'U' posts of 7' length, painted (green color) with welded anchor flange. Drive post 2.5' into ground. Mount signs flush to top of post with 2 galvanized bolts and washers per sign, with anti-theft security nuts.
- Signs shall be located at each turn of conservation easement, and at 100' maximum spacing.

FOREST CONSERVATION SIGN

NOT TO SCALE



**DETAILS
COMBINED FOREST STAND DELINEATION AND
FOREST CONSERVATION PLAN**

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 Director, Planning & Zoning
 J. Knotts - Macdonald
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 10/12/07

OWNER
 HOWARD COUNTY GOVERNMENT
 3430 COURT HOUSE DRIVE
 ELLICOTT CITY, MD 21043
 410-313-2330

PREPARED BY
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 HUNT VALLEY, MARYLAND
 TEL: (410) 785-7220

DES: DTM/RKK			
DRN: WJG			
CHK: DTM/RKK			
DATE: 11/06	DTM	ADDED NEW SHEET TO SDP 97-128	4/17/07
BY	NO.	REVISION	DATE

SCALE	NONE
SHEET	74E OF 89
3RD ELECTION DISTRICT - HOWARD COUNTY, MARYLAND	