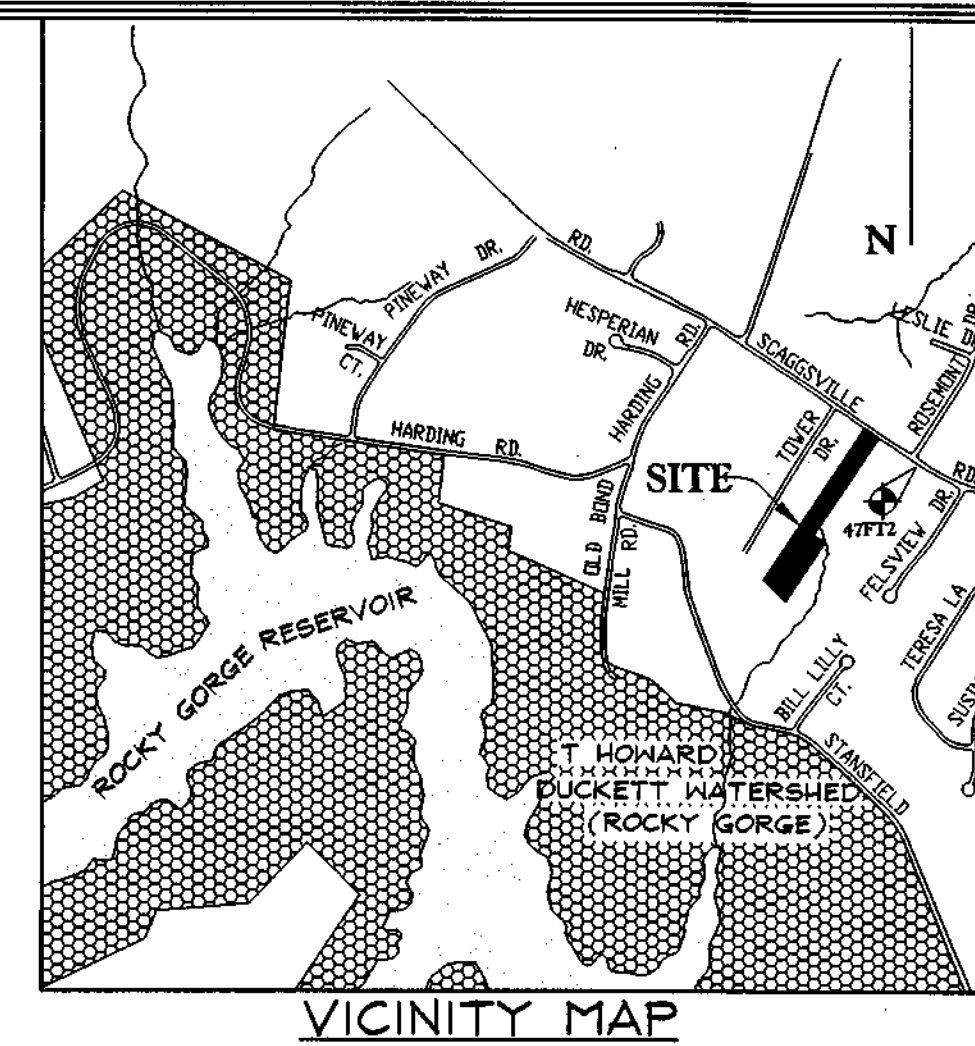
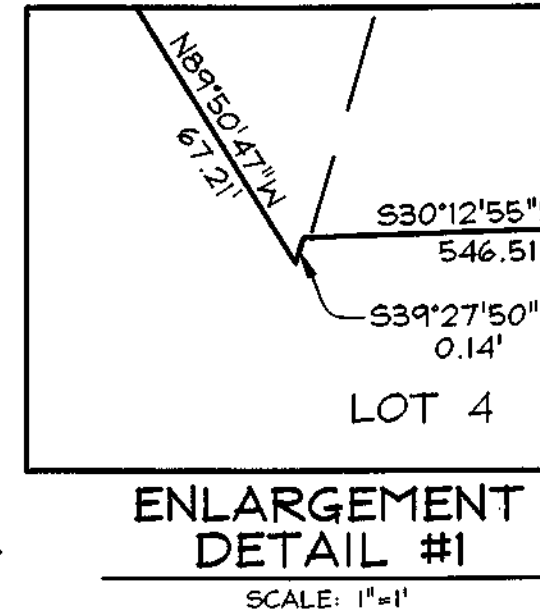
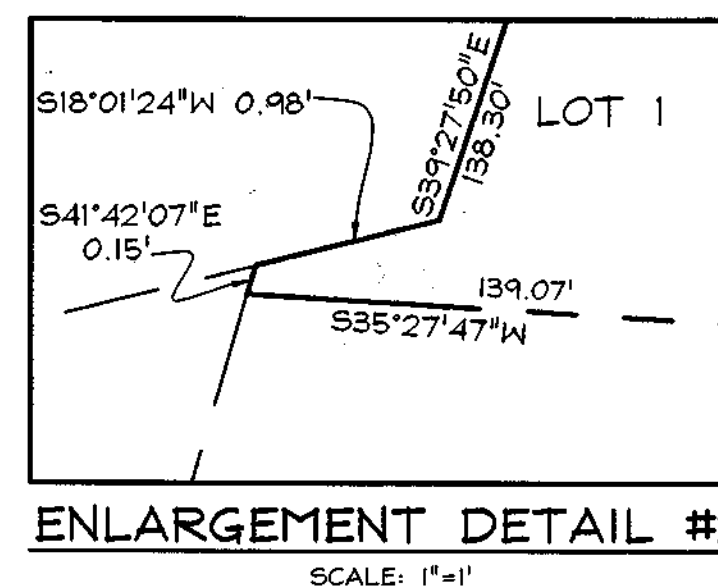


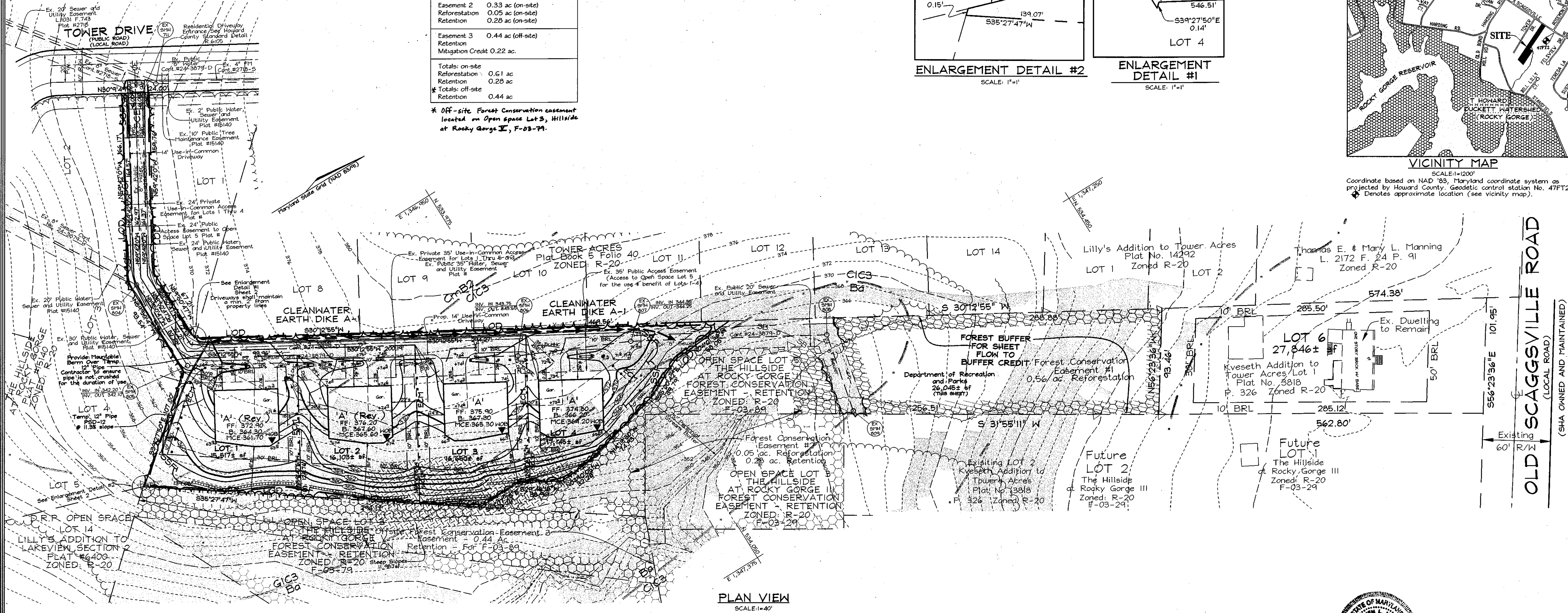
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Easement 1 Reforestation	0.56 ac (on-site)
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Totals: on-site Reforestation Retention	0.61 ac 0.28 ac
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* Off-site Forest Conservation easement located on Open Space Lot 3, Hillside at Rocky Gorge II, F-03-79.



Coordinate based on NAD '83, Maryland coordinate system as projected by Howard County. Geodetic control station No. 47F72.
 * Denotes approximate location (see vicinity map).



PLAN VIEW
SCALE: 1"=40'

LEGEND

- Stabilized Construction Entrance
- Super Silt Fence
- Limit of Disturbance
- Erosion Control Matting
- Earth Dike
- Landscape Perimeter
- Proposed Landscape Tree
- 15% to 24.9% slopes
- 25% or greater slopes
- Stone Trench Level Spreader
- Forest Conservation Easement Signage
- Forest Conservation Easement Retention Area
- Forest Conservation Easement Reforestation/Enhancement Area

FOREST CONSERVATION WORKSHEET

Net Tract Area	Acres
A. Total Tract Area	3.12
B. Area Within 100 Year Floodplain	--
C. Other deductions	--
D. Net Tract Area	3.12
Zoning Use Category: RESIDENTIAL-SUBURBAN	
Land Use Category	
E. Afforestation Minimum (15 % x D)	0.47
F. Conservation Threshold (20 % x D)	0.62
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P. Credit for Retention Above Conservation Threshold	0.99
Q. Total Reforestation Required	0.00
R. Total Afforestation Required	0
S. Total Reforestation and Afforestation Requirement	0.99

FOREST CONSERVATION NARRATIVE

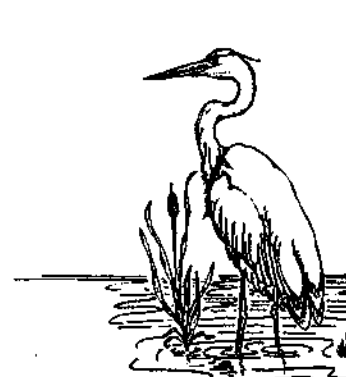
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Forest Conservation Easement 1 will consist of 350 stems/acre of container grown seedling stock for reforestation.

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FOREST CONSERVATION PLAN

THE HILLSIDE AT ROCKY GORGE II
 LOTS 1 THRU 4

TAX MAP 46, GRID 18
 6TH ELECTION DISTRICT

PARCEL 326
 HOWARD COUNTY, MARYLAND

	DESIGN BY: AB	DRAWN BY: AB
	CHECKED BY: SH	SCALE: As Shown
	DATE: Oct. 31, 2009	W.O. No.: 3050
	SHEET No. 1 OF 2	
	FSH Associates Engineers Planners Surveyors 8318 Forest Street Ellicott City, MD 21043 Tel: 410-750-2251 Fax: 410-750-7350 E-mail: FSHAssociates@cs.com	

REFORESTATION PLANTING NOTES

1. Reforestation areas may be planted as soon as reasonable to do so. Late winter- early spring plantings are preferred. Earliest planting dates will vary from year to year but planting may generally begin as soon as the ground is no longer frozen. Alternate planting dates may be considered as condition warrants.
2. Soil amendments and fertilization recommendations will be made based upon the results of soil analysis for nitrogen, phosphorus, potassium, organic matter content and pH. If required, fertilizer will be provided using a slow release, soluble 16-8-16 analysis designed to last 5-8 years contained in polyethylene perforated bags such as manufactured by ADCO Works, P.O. Box 310 Hollis, N.Y. 11423 or approved equal.
3. Plant materials will be planted in accordance with the Planting Distribution Diagram, Planting Details and plant schedule.
4. Plant material shall be nursery grown and inspected prior to planting. Plants not conforming to the American Standard for Nursery Stock specifications for size, form, vigor, or roots, or due to trunk wounds, breakage, desiccation, insect or disease must be replaced.
5. Planting stock must be protected from desiccation at all times prior to planting. Materials held for planting shall be misted and placed in cool shaded areas until ready for placement.
6. Newly planted trees may require watering at least once per week during the first growing season depending on rainfall in order to get established. The initial planting operation should allow for watering during installation to completely soak backfill material.
7. Planting holes should be excavated to a minimum diameter of 2.5 to 3 times the diameter of the root ball or container. Mechanical angling is preferred with scarification of the sides of each hole.
8. Mulch shall be applied in accordance with the diagram provided and shall consist of composted, shredded hardwood bark mulch, free of wood alcohol.

REFORESTATION AREA MONITORING NOTES

1. Monthly visits during the first growing season are to assess the success of the plantings and to determine if supplemental watering, pest control or other actions are necessary. Early spring visits will document winter kill and autumn visits will document summer kill.
2. The minimum survival rate shall be 75% of the total number of trees planted per acre at the end of the two year maintenance period. Wild tree seedlings from natural regeneration on the planting site may be counted up to 50% toward the total survival number if they are healthy native species at least 12 inches tall.
3. Survival will be determined by a stratified random sampling of the plantings. The species composition of the sample population should be proportionate to the amount of each species in the entire planting to be sampled.
4. Effective monitoring will assess plant survivability during the first growing season and make recommendations for reinforcement plantings if required at that time.

FOREST ENHANCEMENT AREA NOTES

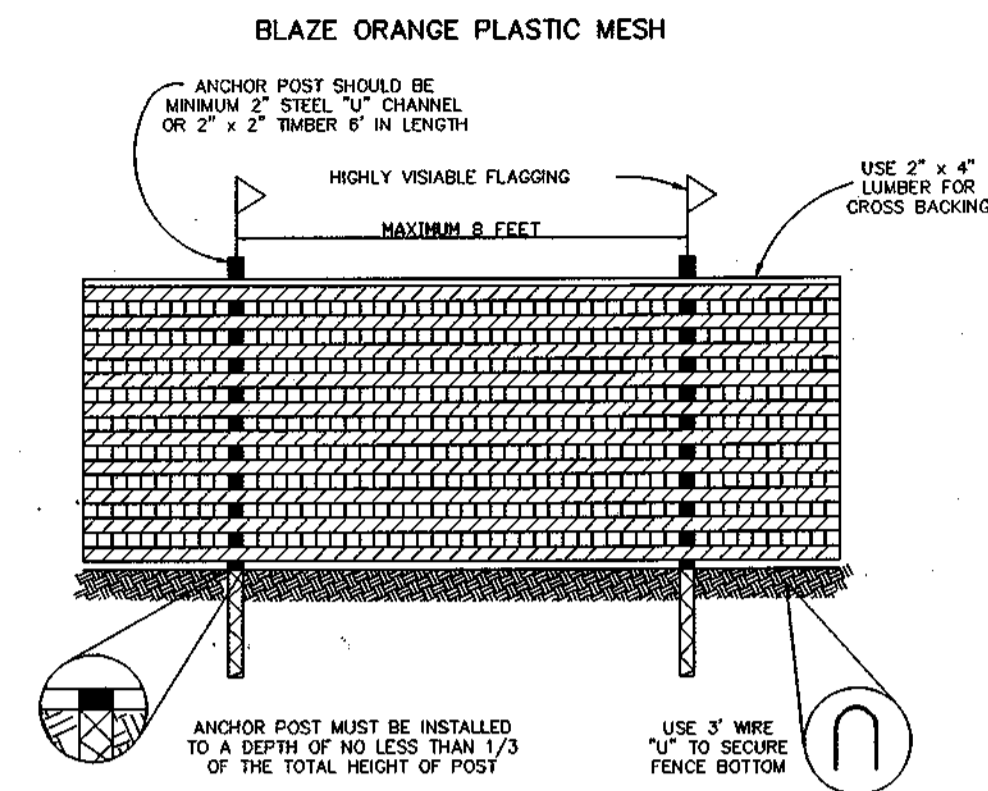
1. INVASIVE AND/OR UNHEALTHY PLANTS SHALL BE REMOVED FROM AREA.
2. THE CONTRACTOR SHALL NOTIFY THE FOREST CONSULTANT PRIOR TO COMMENCING WORK SO THE CONSULTANT MAY IDENTIFY PLANTS FOR TO BE CLEARED AND THOSE TO RETAIN.
3. CONTAINER GROWN STOCK SHALL BE USED TO ENHANCE THE EXISTING VEGETATIVE COMMUNITY FOR THE PURPOSE OF ACHIEVING 350 STEMS/ACRE PLANT DENSITY.
4. FOREST ENHANCEMENT PLANTINGS SHALL FOLLOW THE SAME PROCEDURES OUTLINED ABOVE AND IN THE DETAILS AS USED FOR REFORESTATION PLANTINGS.

EASEMENT 1: REFORESTATION 0.56 Ac • 350 stems/acre = 196 stems

Qty	Botanical Name	Common Name	Min. Size	Spacing	Notes
34	Acer rubrum	Red Maple	2-3' whip	11' o.c.	container
30	Crataegus phaenopyrum	Washington Hawthorn	2-3' whip	11' o.c.	container
30	Liriodendron tulipifera	Yellow Poplar	2-3' whip	11' o.c.	container
34	Pinus strobus	White Pine	2-3' whip	11' o.c.	container
34	Prunus serotina	Black Cherry	2-3' whip	11' o.c.	container
34	Quercus palustris	Pin Oak	2-3' whip	11' o.c.	container

EASEMENT 2: ENHANCEMENT 0.05 Ac • 350 stems/acre = 18 stems

Qty	Botanical Name	Common Name	Min. Size	Spacing	Notes
6	Acer rubrum	Red Maple	2-3' whip	11' o.c.	container
6	Liriodendron tulipifera	Yellow Poplar	2-3' whip	11' o.c.	container
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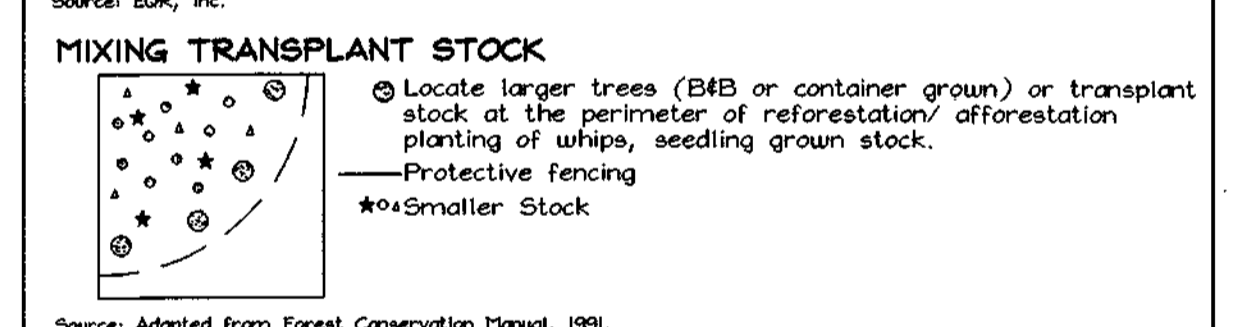
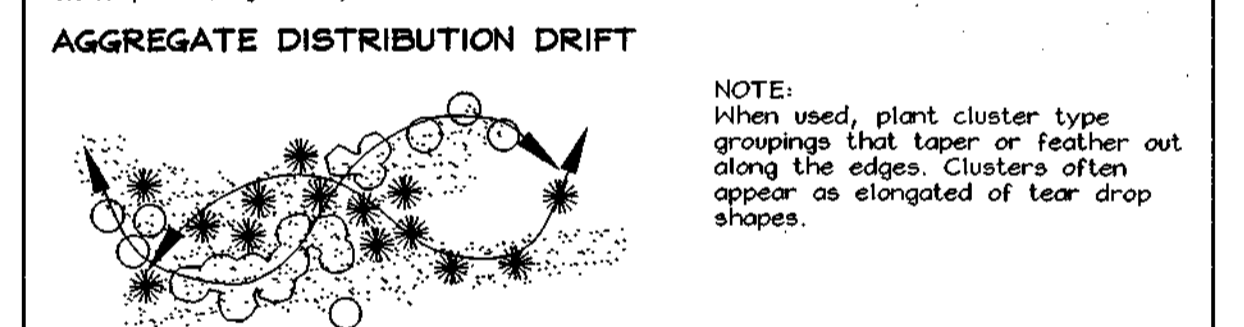
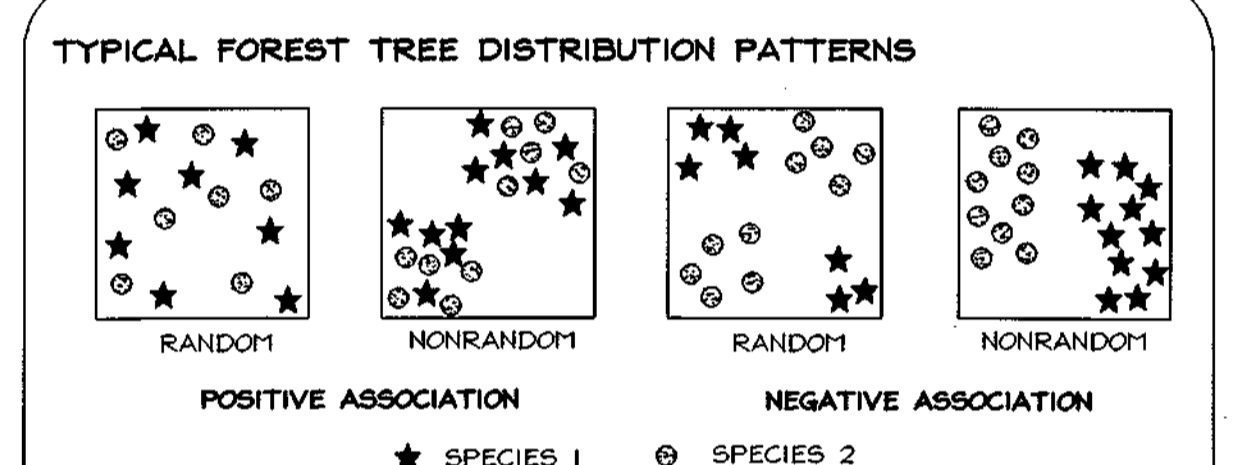
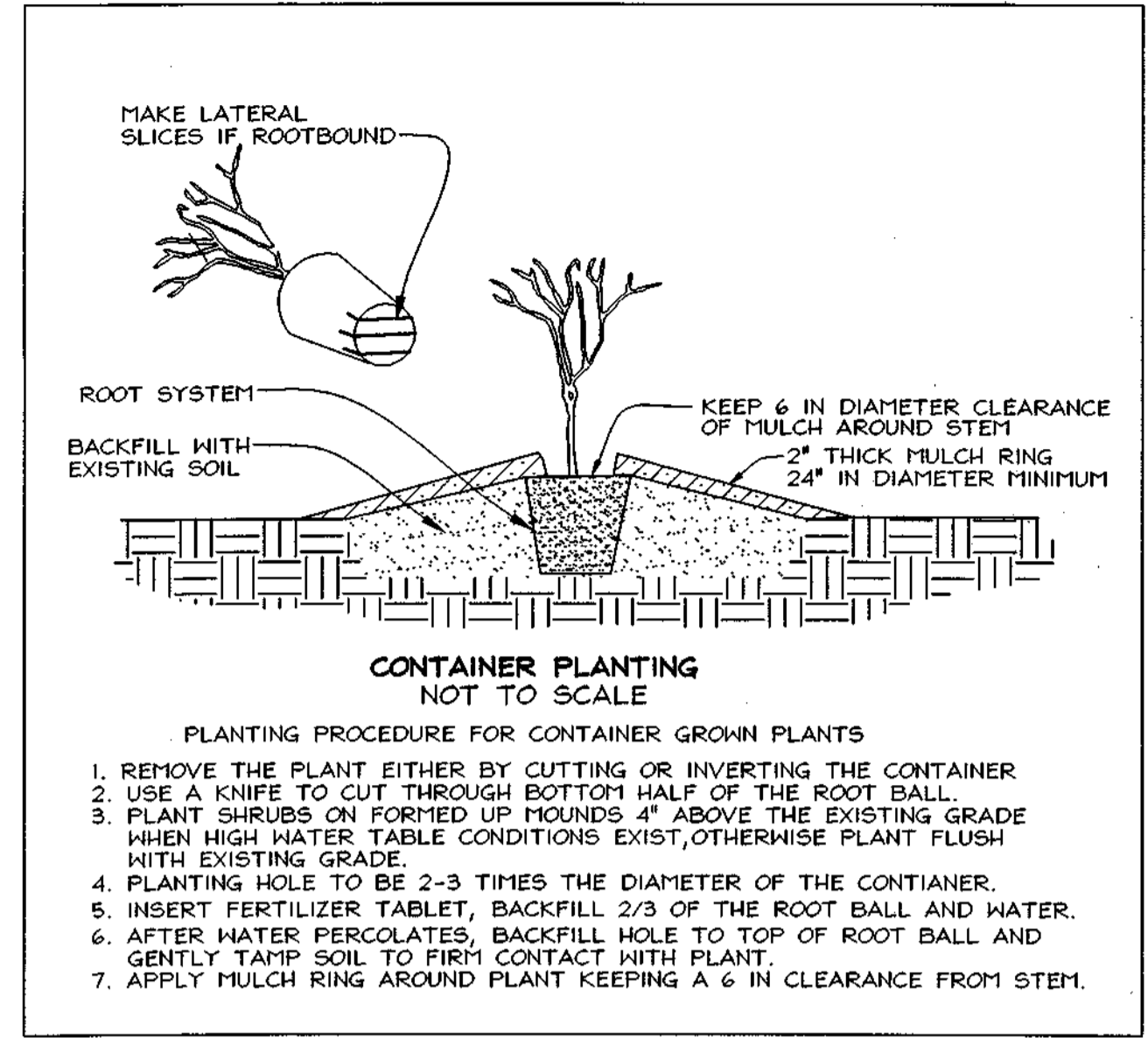
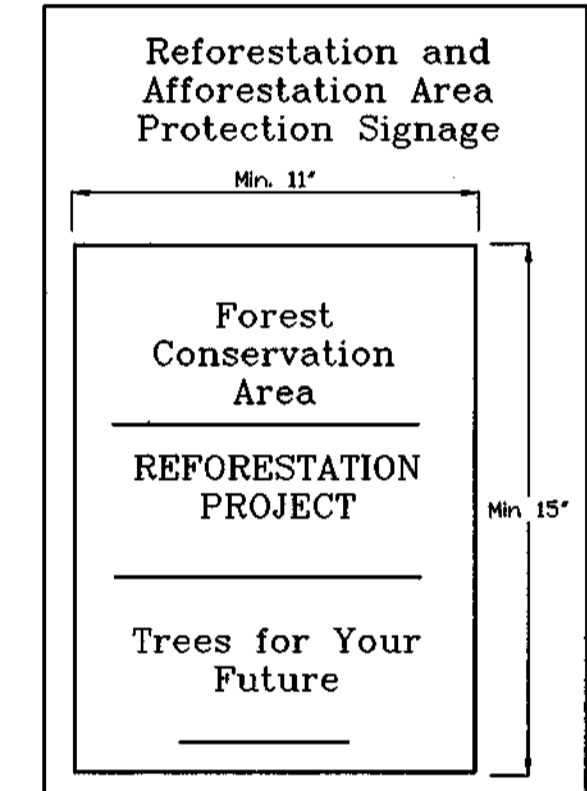
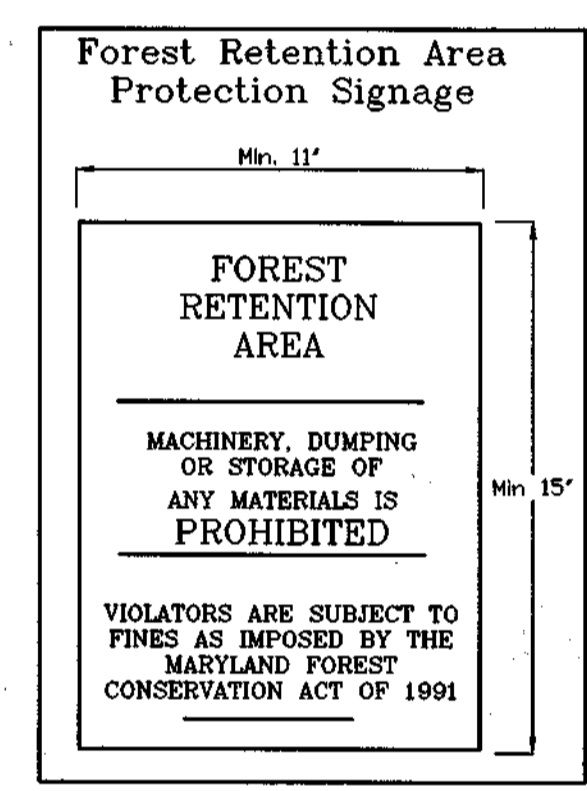
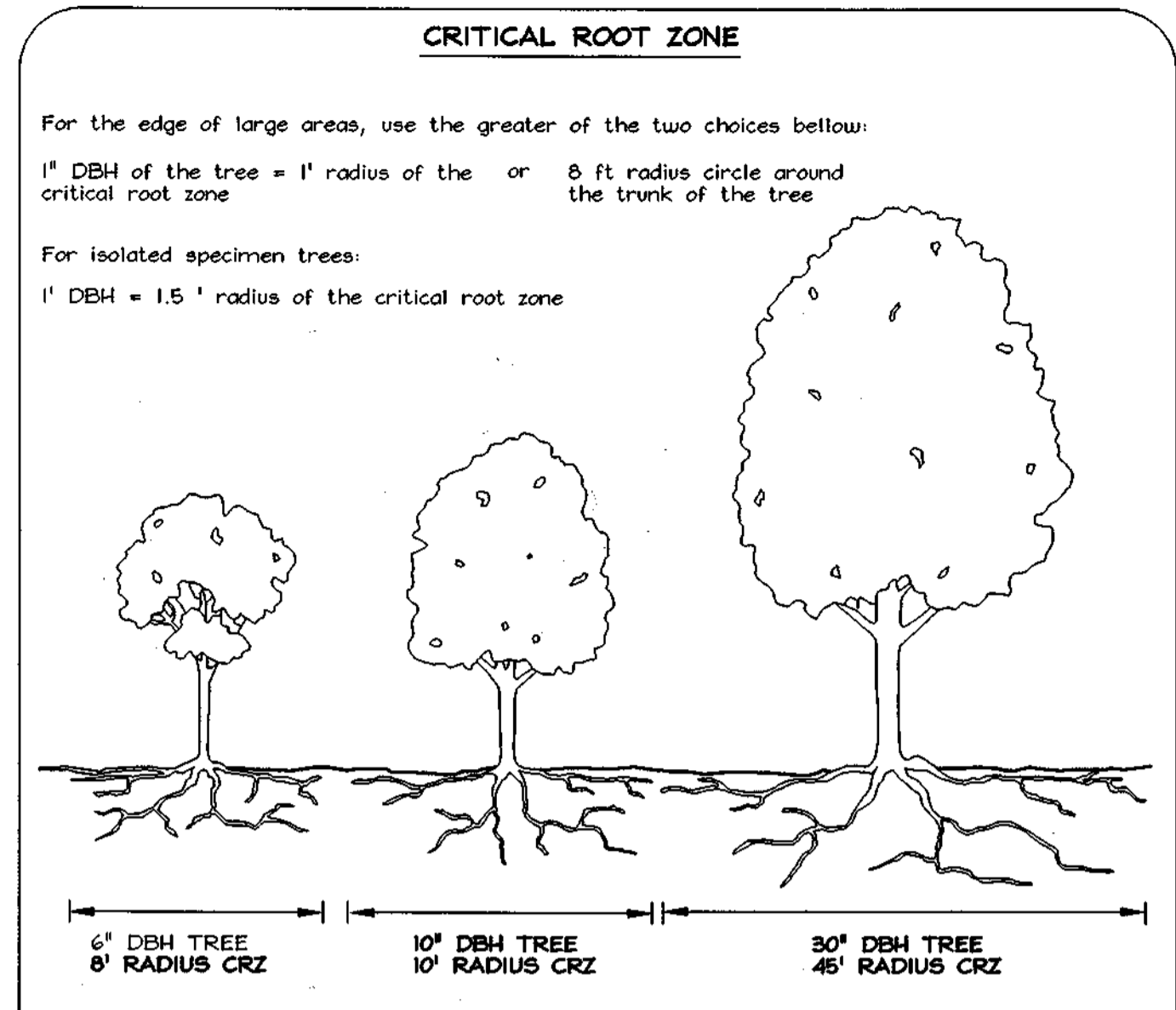
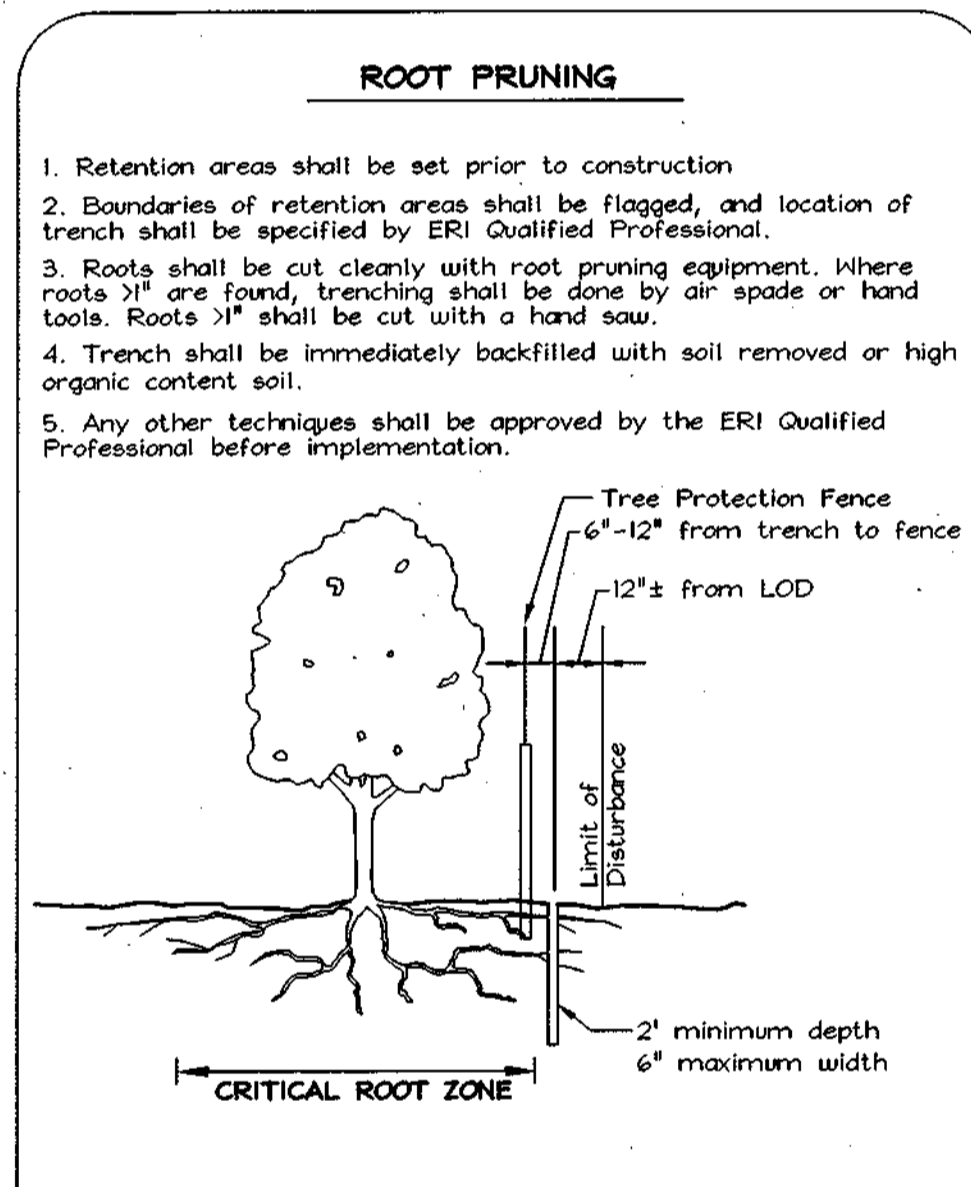


- NOTES:**
1. FOREST PROTECTION DEVICE ONLY.
 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.
 3. BOUNDARIES OF RETENTION AREA SHOULD BE MARKED PRIOR TO INSTALLING DEVICE.
 4. ROOT DAMAGE SHOULD BE AVOIDED.
 5. PROTECTIVE SIGNAGE MAY ALSO BE USED.
 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION DETAIL
NOT TO SCALE

Soil Protection Zone Notes

1. The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.
2. 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 tree, whichever is greater.
3. No construction activity is permitted within the Soil Protection Zone.
4. 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.
5. Root pruning shall occur prior to the beginning of construction.
6. 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.
7. Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.
8. Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized.
9. Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.



PLANTING DISTRIBUTION PATTERNS FIGURE 3.8.2

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
 [Signature] 11/12/03 DATE
 CHIEF, DEVELOPMENT ENGINEERING DIVISION
 [Signature] 11/13/03 DATE
 CHIEF, DIVISION OF LAND DEVELOPMENT
 N/A DIRECTOR N/A DATE

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FOREST CONSERVATION PLAN
THE HILLSIDE AT ROCKY GORGE II
 LOTS 1 THRU 4

TAX MAP 46, GRID 18
 6TH ELECTION DISTRICT

PARCEL 326
 HOWARD COUNTY, MARYLAND

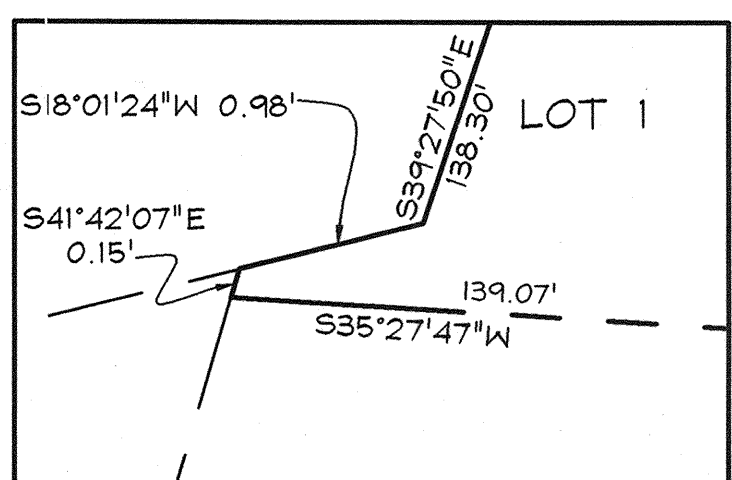
DESIGN BY: AB
 DRAWN BY: AB
 CHECKED BY: SH
 SCALE: As Shown
 DATE: Oct. 31, 2003
 W.O. No.: 3050
 SHEET No. 2 OF 2

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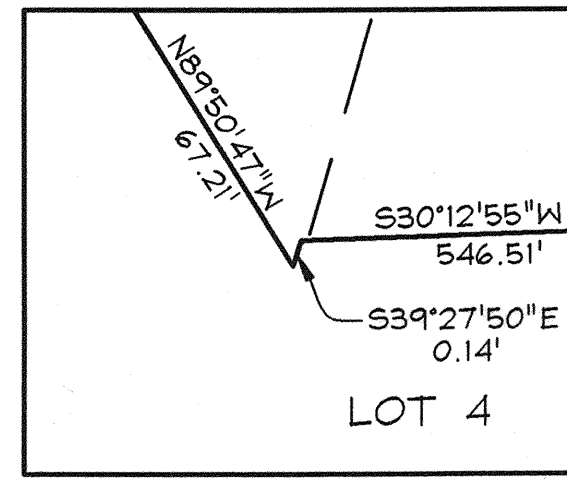
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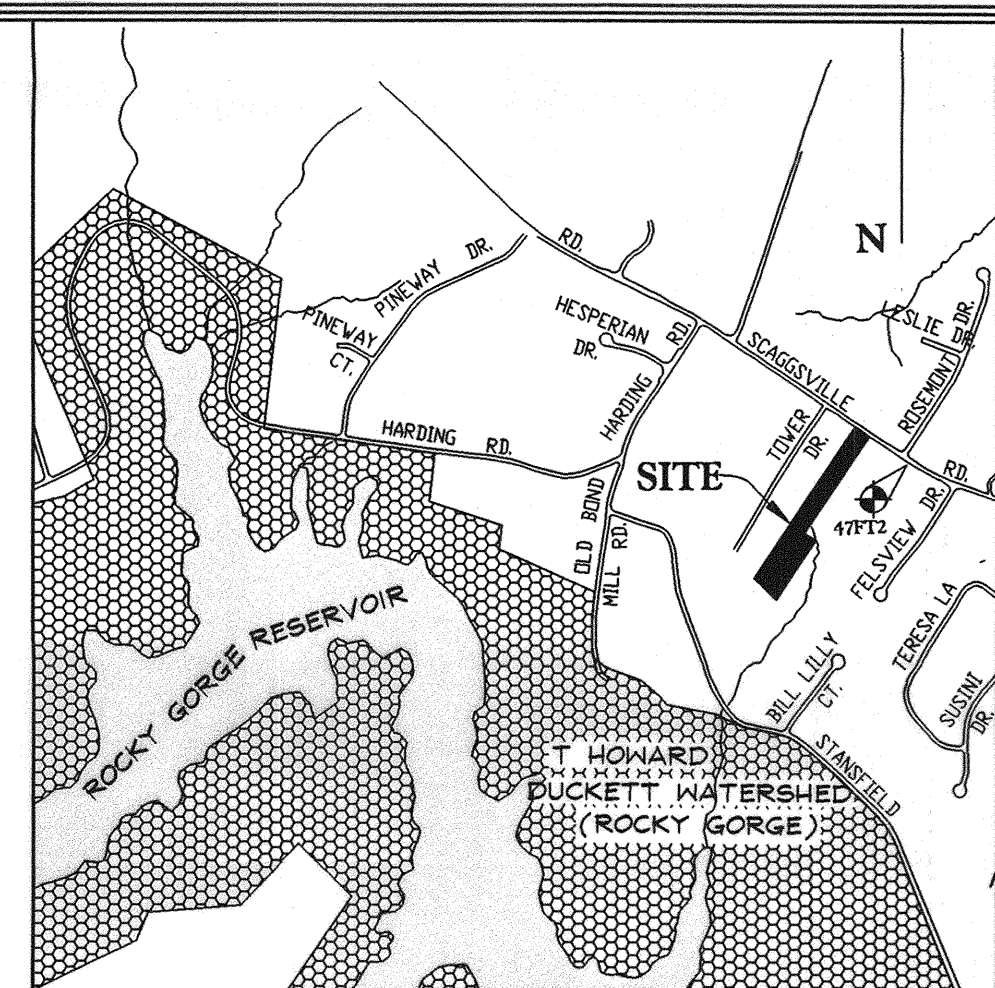
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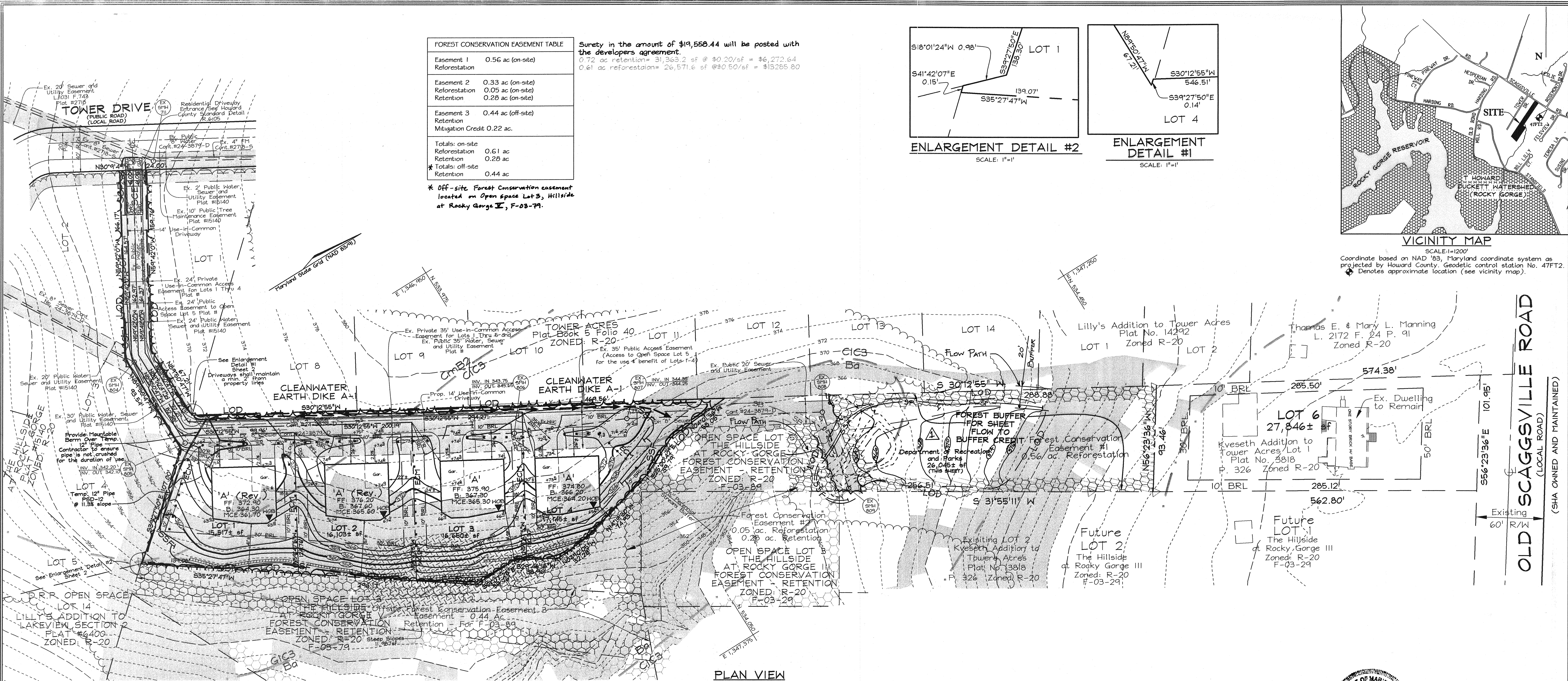
ENLARGEMENT DETAIL #2
SCALE: 1"=1'



ENLARGEMENT DETAIL #1
SCALE: 1"=1'



VICINITY MAP
SCALE: 1"=1200'
Coordinate based on NAD '83, Maryland coordinate system as projected by Howard County Geodetic control station No. 47FT2.
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PLAN VIEW
SCALE: 1"=40'

LEGEND

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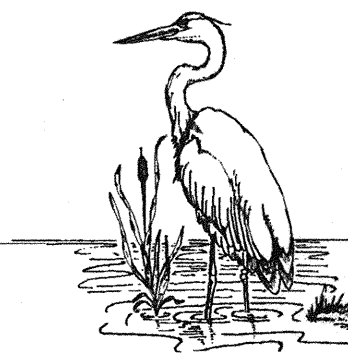
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	APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION 11/12/03 DATE CHIEF, DIVISION OF LAND DEVELOPMENT 11/15/03 DATE DIRECTOR N/A DATE	