

## 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
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- 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

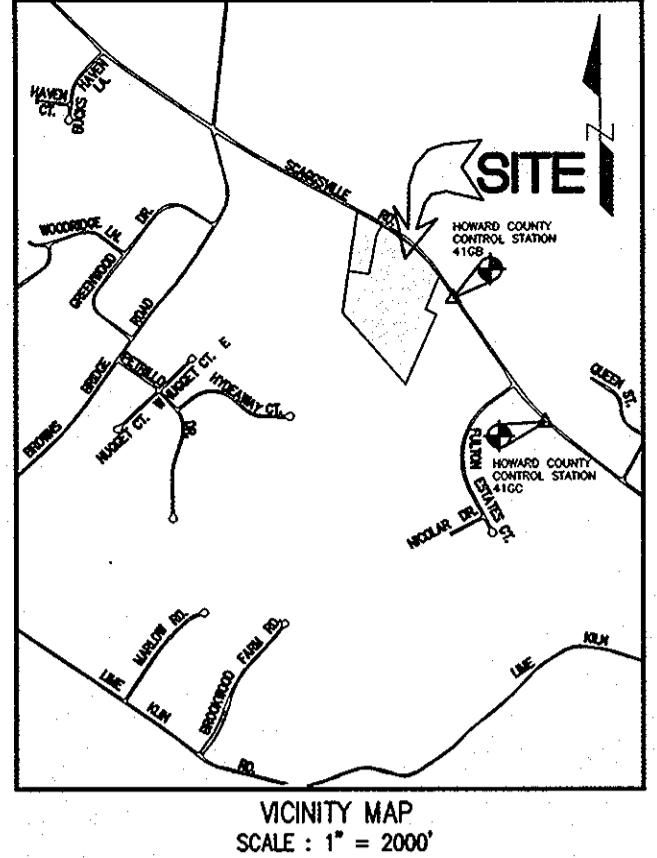
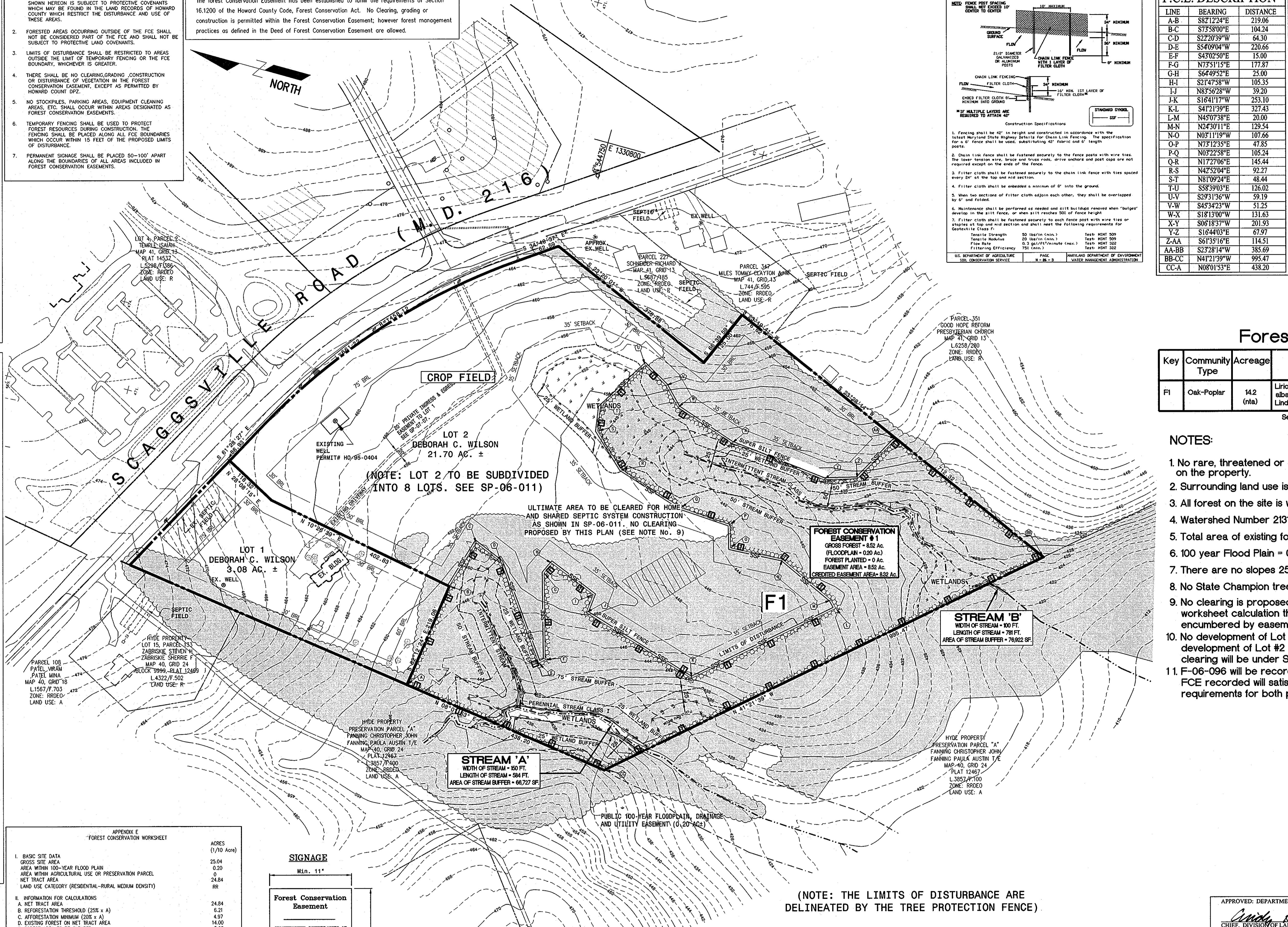
The following measures shall be taken:

- 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.
- Removal of temporary structures:
  - No burial of discarded materials will occur on-site within the conservation area.
  - No open burning within 100 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.

FCE NOTES	
1. ANY FOREST CONSERVATION EASEMENT (FCE) AREA SHOWN HEREIN MAY SUBJECT FOREST PROTECTION COVENANTS WHICH MAY BE FOUND IN THE LAND RECORDS OF HOWARD COUNTY WHICH RESTRICT THE DISTURBANCE AND USE OF THESE AREAS.	
2. FORESTED AREAS OCCURRING OUTSIDE OF THE FCE SHALL NOT BE CONSIDERED PART OF THE FCE AND SHALL NOT BE SUBJECT TO PROTECTIVE LAND COVENANTS.	
3. LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO AREAS WHICH DO NOT EXCEED THE REFORESTING OR THE FCE BOUNDARY, WHICHEVER IS GREATER.	
4. THERE SHALL BE NO CLEARING, GRADING, CONSTRUCTION OR DISTURBANCE OF VEGETATION IN THE FOREST CONSERVATION EASEMENT, EXCEPT AS PERMITTED BY HOWARD COUNTY D.P.Z.	
5. NO STOCKPILES, PARKING AREAS, EQUIPMENT CLEANING AND MAINTENANCE AREAS OCCUR WITHIN AREAS DESIGNATED AS FOREST CONSERVATION EASEMENTS.	
6. TEMPORARY FENCING SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. THE FENCING SHALL BE PLACED ALONG ALL FCE BOUNDARIES WHICH ARE WITHIN 15 FEET OF THE PROPOSED LIMITS OF DISTURBANCE.	
7. PERMANENT FENCE SHALL BE PLACED 50'-100' APART ALONG THE BOUNDARIES OF ALL AREAS INCLUDED IN FOREST CONSERVATION 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.



## Forest Stand Data

Key	Community Type	Acreage	Dominant Vegetation	General Condition	Priority Acreage
FI	Oak-Poplar	14.2 (na)	Liriodendron tulipifera, Quercus alba, Quercus rubra, Acer rubrum, Lindera benzoin	Good	20± wetlands/buffers

See accompanying report for complete stand descriptions

## NOTES:

- No rare, threatened or endangered species were observed on the property.
- Surrounding land use is low density residential and agricultural.
- All forest on the site is within Stand F-1.
- Watershed Number 213110 -Rocky Gorge Dam
- Total area of existing forest on site = 14.2 Acres
- 100 year Flood Plain = 0.20 Acres
- There are no slopes 25% or greater on site.
- No State Champion trees exist on site.
- No clearing is proposed under F-06-096. It is the FCE worksheet calculation that requires those forest not encumbered by easement to be "considered cleared".
- No development of Lot #2 is proposed under F-06-096. The development of Lot #2 into 8 building lots, and the resulting clearing will be under SP-06-011.
- F-06-096 will be recorded after SP-06-011 is approved. The FCE recorded will satisfy the Forest Conservation ordinance requirements for both plans.

The area of stream buffer/reforestation planning shall be protected during construction per the following:

## FOREST PROTECTION PROCEDURES - Preconstruction Phase

Stress Reduction and Protection of Specimen Trees Isolated from Retention Areas and General Forest Retention Areas (as They May Apply)

- The edge of the woods to be protected will be marked (stake flagged) in the field prior to the time of disturbance shown in the approved final construction plan prior to the start of construction activity. All areas within protective fences are to be considered protected from construction activities. The protective fence shall be installed at the outside edge of forested areas and specifically around specimen trees when possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

Isolated Specimen Trees - 1 foot of protective radius per inch of DBH

Edge of Forested Area - 1 foot of protective radius and 1 foot of buffer or an eight foot protective radius, whichever is greater.

- Construction activities expressly prohibited within the preservation areas are:

Placing or stockpiling backfill or top soil in protected areas  
Driving construction equipment into or through protected areas  
Driving in or placing proximity to protected areas  
Starting or storing supplies of any kind

Concrete wash-off areas  
Conducting trench operations  
Driving or placing of disturbance  
Parking vehicles or construction equipment  
Removal of root mat or topsoil  
Siting and constructing utility lines

Access roads  
Impervious surfaces  
Surface water management devices  
Staging areas

- Protective fencing ("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 to be considered protected from construction activities (see Figure "Signage"). The general contractor shall take great care to assure the restricted areas are not violated and all root systems are protected from damage. Flooding, excessive run-off, de-watering, off-site run-off, spillage and drainage or solution containing materials hazardous to tree roots.

4.) The general contractor shall be responsible for any damage to trees caused by the contractor, its agents, employees, sub-contractors, or licensees.

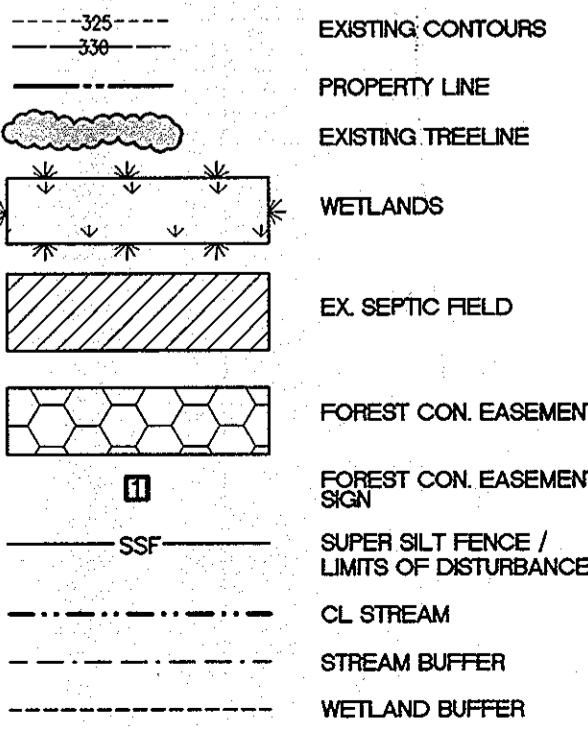
- Foot traffic shall be kept to a minimum in the protective areas.

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. If trees are to be removed, the contractor 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.

## LEGEND :



## APPENDIX E FOREST CONSERVATION WORKSHEET

I. BASIC SITE DATA  
GROSS SITE AREA  
ACRES (1/10 Acre)  
25.04  
0.20  
24.84  
RR

II. INFORMATION FOR CALCULATIONS  
A. NET TRACT AREA  
24.84  
B. REFORESTATION THRESHOLD (25% x A)  
6.21  
C. AFFORESTATION MINIMUM (20% x A)  
4.97  
D. EXISTING FOREST AREA  
14.00  
E. FOREST AREA TO BE RETAINED  
5.63  
F. FOREST AREA TO BE CLEARED  
8.32

III. DETERMINING REQUIREMENTS: AFFORESTATION OR Reforestation  
1. AFFORESTATION  
(If existing forest area is equal to or greater than the reforestation minimum, (D > or = C), reforestation requirements apply.)

IV. Reforestation Calculations  
A. NET TRACT AREA  
24.84  
B. Reforestation Threshold (25%)  
6.21  
C. Existing Forest Net Area  
14.00  
D. Forest Area to be Cleared  
5.63  
E. Forest Area Cleared Above Reforestation Threshold  
5.68  
F. Forest Area Cleared Below Reforestation Threshold  
0  
G. Forest Areas Retained Above Reforestation Threshold  
2.11  
H. Forest Areas Retained Below Reforestation Threshold  
0  
I. Alternate #1 Applies  
CLEARING ABOVE THE THRESHOLD (ExB)  
If Forest areas to be retained are greater than the reforestation threshold, (D > C), the following calculations apply:  
1. If Forest areas to be retained are less than the reforestation threshold, (D < C), the following calculations apply:  
a. If Forest areas to be retained are less than the reforestation threshold, (D < C), the following calculations apply:  
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- Retain signs for retention areas or specimen trees.
- A county official shall inspect the entire site.

The area of stream buffer/reforestation planning shall be protected during construction per the following:

## FOREST PROTECTION PROCEDURES - Preconstruction Phase

Stress Reduction and Protection of Specimen Trees Isolated from Retention Areas and General Forest Retention Areas (As They May Apply)

- The edge of the woods to be protected will be indicated (staked) in the field per the limits of disturbance shown on the approved final construction plan prior to the start of construction activity. All areas within protective fences are to be considered protected from construction activities. The protective fencing shall be installed at the outside edge of forested areas and specimen trees shall be protected and be combined with sediment control devices where possible. The limit of the critical root zone and therefore the location of the protective devices is to be determined as follows:

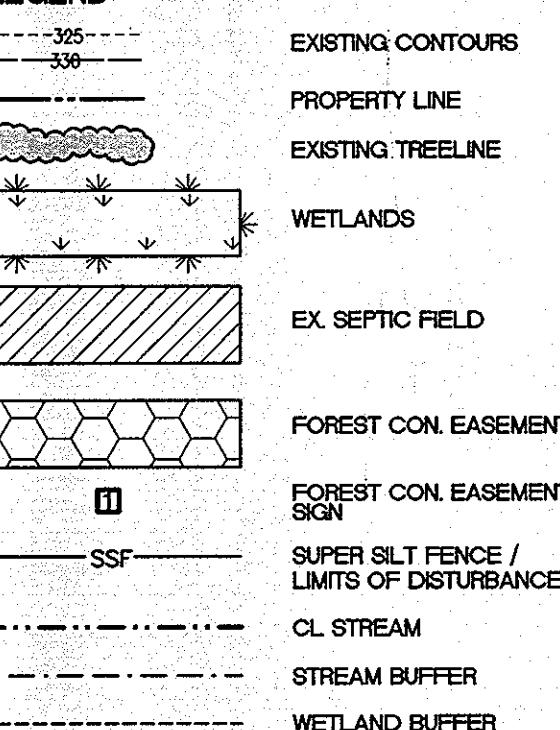
Isolated Specimen Trees - 1.5 feet of protective radius per inch of DBH  
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Driving construction equipment into or through protected areas  
Driving or placing equipment within proximity to protected areas  
Starting or storing supplies of any kind  
Concrete wash-off areas  
Conducting trenching operations  
Conducting operations of any kind of disturbance  
Parking vehicles or construction equipment  
Removal of root mat or topsoil  
Siting and constructing utility lines  
Access roads  
Impervious surfaces  
Soil water management devices  
Staging areas

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- The general contractor shall designate a "wash out" area on-site for concrete trucks which will not drain toward a protected area.
- A pre-construction meeting shall be held with local authorities before any disturbance has taken place on site.

## LEGEND :



## APPENDIX E FOREST CONSERVATION WORKSHEET

I. BASIC SITE DATA  
GROSS SITE AREA  
AREA IN 100-YEAR FLOOD PLAIN  
AREA WITHIN AGRICULTURAL USE OR PRESERVATION PARCEL  
NET TRACT AREA  
LAND USE CATEGORY (RESIDENTIAL-RURAL MEDIUM DENSITY)

ACRES  
(1/10 Acre)

25.04  
0.20  
0  
2.84  
RR

II. INFORMATION FOR CALCULATIONS  
A. NET TRACT AREA  
B. REFORESTATION THRESHOLD (25% x A)  
C. AFFORESTATION MINIMUM (20% x A)  
D. EXISTING FOREST AREA IN NET TRACT AREA  
E. FOREST AREA TO BE CLEARED  
F. FOREST AREA TO BE RETAINED

24.84  
6.21  
4.97  
14.00  
5.68  
8.32

III. DETERMINING REQUIREMENTS: AFFORESTATION OR Reforestation  
1. REFORESTATION  
(If existing forest area is equal to or greater than the reforestation minimum, (D > or = C), reforestation requirements apply.)

8.32

IV. Reforestation Calculations  
A. NET TRACT AREA  
B. Reforestation Threshold (25%)  
C. Existing Forest Area in Net Tract Area  
D. Existing Forest Area to be Cleared  
E. Forest Area to be Retained  
F. Forest Area Cleared Above Reforestation Threshold  
G. Forest Area Retained Below Reforestation Threshold  
H. Forest Areas Retained Above Reforestation Threshold  
ALTERNATE #1 APPLIES  
CLEARING ABOVE THE THRESHOLD (ExB)  
If Forest areas to be retained are greater than the reforestation threshold, if E > B, the following calculation applies:  
CLEARING ABOVE THE THRESHOLD (ExB) + (E-B) following calculation applies:  
CLEARING ABOVE THE THRESHOLD (ExB) + (E-B) x (C/E) = C  
TOTAL REFORESTATION REQUIRED (ExB) - H

24.84  
6.21  
14.00  
5.68  
8.32  
5.68  
0  
2.11

SEE SYMBOL

H

PLAN  
SCALE : 1" = 100'

Min. 11"

Min. 15"

15"

15"

15"

15"

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