

SPECIFICATIONS FOR BIORETENTION
 1. MATERIAL SPECIFICATIONS
 THE ALLOWABLE MATERIALS TO BE USED IN BIORETENTION AREA ARE DETAILED IN TABLE B.3.2.

2. PLANTING SOIL
 THE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHALL BE MIXED OR DUMPED WITHIN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE PLANTING SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, OR OTHER NOXIOUS WEEDS AS SPECIFIED UNDER COMAR 15.08.01.05.

THE PLANTING SOIL SHALL BE TESTED AND SHALL MEET THE FOLLOWING CRITERIA:

| | |
|-------------------------------|-----------------------|
| PH RANGE | 5.2 - 7.0 |
| ORGANIC MATTER | 1.5-4% (BY WEIGHT) |
| MAGNESIUM | 35 LB./AC |
| PHOSPHORUS (PHOSPHATE - P2O5) | 75 LB./AC |
| POTASSIUM (POTASH - K2O) | 85 LB./AC |
| SOLUBLE SALTS | NOT TO EXCEED 500 PPM |

ALL BIORETENTION AREAS SHALL HAVE A MINIMUM OF ONE TEST. EACH TEST SHALL CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS. A TEXTURAL ANALYSIS IS REQUIRED FROM THE SITE STOCKPILED TOPSOIL IF TOPSOIL IS IMPORTED, THEN A TEXTURE ANALYSIS SHALL BE PERFORMED FOR EACH LOCATION WHERE THE TOP SOIL WAS EXCAVATED. SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHALL COME FROM THE SAME TESTING FACILITY. SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.

3. COMPACTION

IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE BIORETENTION AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF BIORETENTION AREAS ARE EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TIRE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES WILL CAUSE EXCESSIVE COMPACTION RESULTING IN REDUCED INFILTRATION RATES AND IS NOT ACCEPTABLE. COMPACTION WILL SIGNIFICANTLY CONTRIBUTE TO DESIGN FAILURE.

COMPACTION CAN BE ALLEVIATED AT THE BASE OF THE BIORETENTION FACILITY BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE TO REFRACATURE THE SOIL PROFILE THROUGH THE 12 INCH COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.

ROTOTILL 2 TO 3 INCHES OF SAND INTO THE BASE OF THE BIORETENTION FACILITY BEFORE BACKFILLING THE OPTIONAL SAND LAYER. PUMP ANY PONDING WATER BEFORE PREPARING (ROTOTILLING) BASE. WHEN BACKFILLING THE TOPSOIL OVER THE SAND LAYER, FIRST PLACE 3 TO 4 INCHES OF TOPSOIL OVER THE SAND, THEN ROTOTILL THE SAND/TOPSOIL TO CREATE A GRADATION ZONE. BACKFILL THE REMAINDER OF THE TOPSOIL TO FINAL GRADE.

WHEN BACKFILLING THE BIORETENTION FACILITY, PLACE SOIL IN LIFTS 12" TO 18". DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.

4. PLANT MATERIAL

SEE PLANT LIST FOR PLANT MATERIALS REQUIRED.

5. PLANT INSTALLATION

MULCH SHOULD BE PLACED TO A UNIFORM THICKNESS OF 2" TO 3" SHREDDED HARDWOOD MULCH IS THE ONLY ACCEPTED MULCH. PINE MULCH AND WOOD CHIPS WILL FLOAT AND MOVE TO THE PERIMETER OF THE BIORETENTION AREA DURING A STORM EVENT AND ARE NOT ACCEPTABLE. SHREDDED MULCH MUST BE WELL AGED (6 TO 12 MONTHS) FOR ACCEPTANCE.

ROOT STOCK OF THE PLANT MATERIAL SHALL BE KEPT MOIST DURING TRANSPORT AND ON-SITE STORAGE. THE PLANT ROOT BALL SHOULD BE PLANTED SO 1/8" OF THE BALL IS ABOVE FINAL GRADE SURFACE. THE DIAMETER OF THE PLANTING PIT SHALL BE AT LEAST SIX INCHES LARGER THAN THE DIAMETER OF THE PLANTING BALL. SET AND MAINTAIN THE PLANT STRAIGHT DURING THE ENTIRE PLANTING PROCESS. THOROUGHLY WATER GROUND BED COVER AFTER INSTALLATION.

TREES SHALL BE BRACED USING 2" BY 2" STAKES ONLY AS NECESSARY AND FOR THE FIRST GROWING SEASON ONLY. STAKES ARE TO BE EQUALLY SPACED ON THE OUTSIDE OF THE TREE BALL.

GRASSES AND LEGUME SEED SHOULD BE DRILLED INTO THE SOIL TO A DEPTH OF AT LEAST ONE INCH. GRASS AND LEGUME PLOTS SHALL BE PLANTED FOLLOWING THE NON-GRASS GROUND COVER PLANTING SPECIFICATIONS.

THE TOPSOIL SPECIFICATIONS PROVIDE ENOUGH ORGANIC MATERIAL TO ADEQUATELY SUPPLY NUTRIENTS FROM NATURAL CYCLING. THE PRIMARY FUNCTION OF THE BIORETENTION STRUCTURE IS TO IMPROVE WATER QUALITY. ADDING FERTILIZERS DEFEATS, OR AT A MINIMUM, IMPEDES THIS GOAL. ONLY ADD FERTILIZER IF WOOD CHIPS OR MULCH ARE USED TO AMEND THE SOIL. ROTOTILL UREA FERTILIZER AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET.

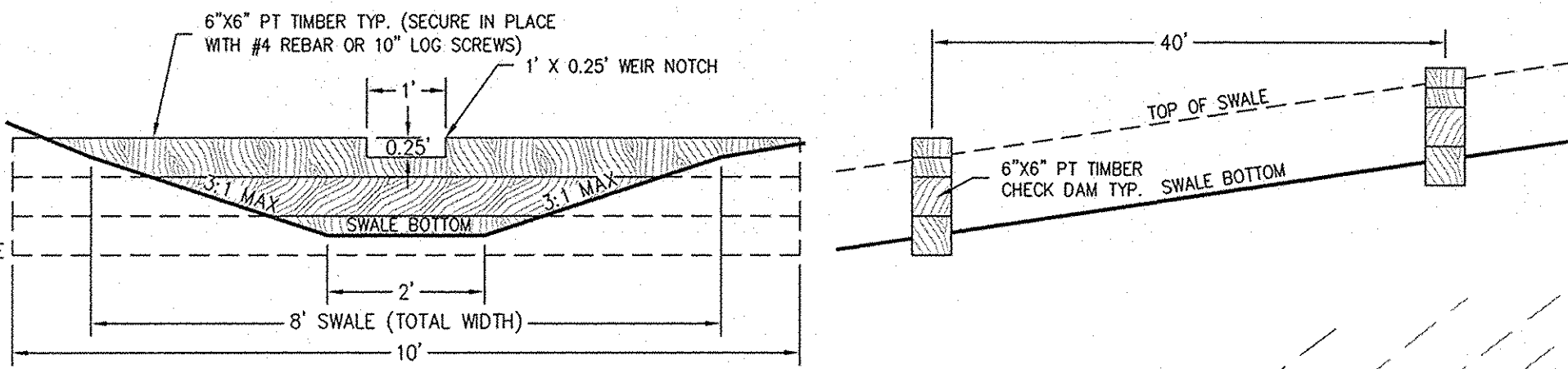
6. UNDERDRAINS

UNDERDRAINS ARE TO BE PLACED ON A 3"-0" WIDE SECTION OF FILTER CLOTH. PIPE IS PLACED NEXT, FOLLOWED BY THE GRAVEL BEDDING. THE ENDS OF UNDERDRAIN PIPES NOT TERMINATING IN AN OBSERVATION WELL SHALL BE CAPPED.

THE MAIN COLLECTOR PIPE FOR UNDERDRAIN SYSTEMS SHALL BE CONSTRUCTED AT A MINIMUM SLOPE OF 0.5%. OBSERVATION WELLS AND/OR CLEAN-OUT PIPES MUST BE PROVIDED (ONE MINIMUM PER EVERY 1000 SQUARE FEET OF SURFACE AREA).

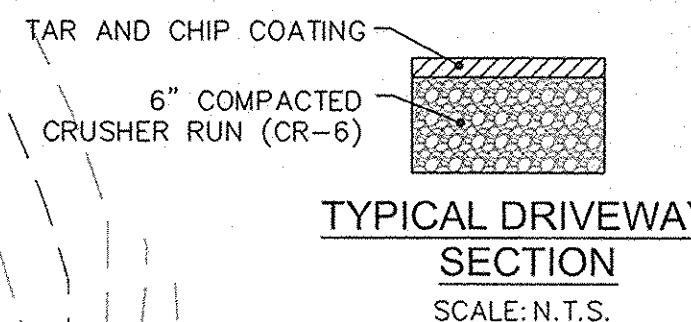
7. MISCELLANEOUS

THE BIORETENTION FACILITY MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.



GRASS CHANNEL DETAIL

SCALE: N.T.S.

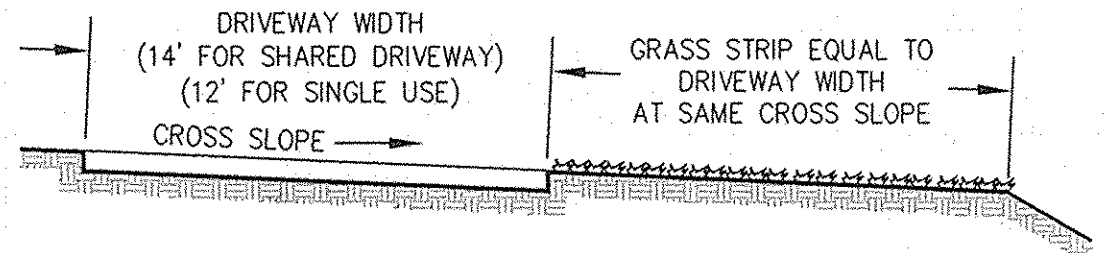


TYPICAL DRIVEWAY SECTION

SCALE: N.T.S.

LEGEND

- 460 --- EXISTING CONTOUR
- [Hatched Box] SLOPES (15%-25%)
- [Hatched Box] SLOPES (>25%)
- [Dashed Line] EXISTING TREE LINE
- [Solid Line] PROPOSED TREE LINE
- [Dashed Line] LIMIT OF DISTURBANCE
- [Dashed Line] PROPERTY BOUNDARY
- [Symbol] GRASS CHANNEL WITH CHECK DAMS
- [Symbol] FOREST RETENTION BOUNDARY LINE AND SIGN
- [Symbol] TREE PROTECTION FENCE
- [Symbol] EXISTING DRIVEWAY PAVEMENT TO REMAIN
- [Symbol] SWM DISCONNECT CREDIT (DRIVEWAY NON-ROOFTOP DISCONNECT AND GRASS CHANNEL)



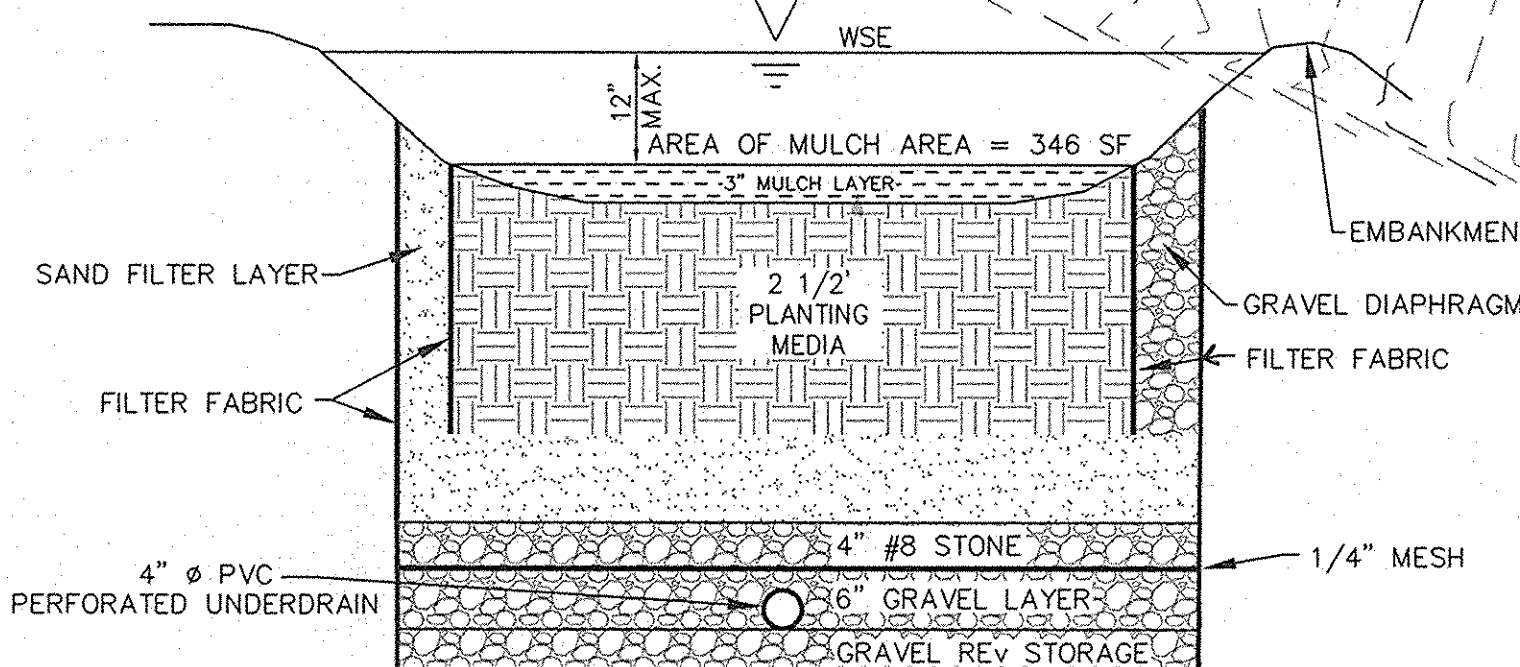
DRIVEWAY (NON-ROOFTOP) DISCONNECT DETAIL

SCALE: N.T.S.

- OPERATION AND MAINTENANCE SCHEDULE FOR BIO-RETENTION AREAS (F-6)
- ANNUAL MAINTENANCE OF PLANT MATERIAL, MULCH LAYER AND SOIL LAYER IS REQUIRED. MAINTENANCE OF MULCH AND SOIL IS LIMITED TO CORRECTING AREAS OF EROSION OR WASH OUT. ANY MULCH REPLACEMENT SHALL BE DONE IN THE SPRING. PLANT MATERIAL SHALL BE CHECKED FOR DISEASE AND INSECT INFESTATION AND MAINTENANCE WILL ADDRESS DEAD MATERIAL AND PRUNING.
 - SCHEDULE OF PLANT INSPECTION WILL BE TWICE A YEAR IN SPRING AND FALL. THIS INSPECTION WILL INCLUDE REMOVAL OF DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT, TREATMENT OF ALL DISEASED TREES AND SHRUBS AND REPLACEMENT OF ALL DEFICIENT STAKES AND WIRES.
 - MULCH SHALL BE INSPECTED EACH SPRING. REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER ONCE EVERY 2 TO 3 YEARS.
 - SOIL EROSION TO BE ADDRESSED ON AN AS NEEDED BASIS, WITH A MINIMUM OF ONCE PER MONTH AND AFTER HEAVY STORM EVENTS.

DESIGN/PERFORMANCE SPECIFICATIONS FOR BIORETENTION AREAS

- THE MAXIMUM EMBANKMENT FILL SIDE SLOPES SHALL NOT EXCEED 3:1.
- A MINIMUM OF ONE (1) TREE AND TWO (2) SHRUBS PER 50 SF SHALL BE PROVIDED WITH THE FACILITY LANDSCAPING.
- THE LANDSCAPING FOR THE FACILITY SHALL COVER AT LEAST 50% OF THE SURFACE AREA.
- BIORETENTION FACILITIES LOCATED ON SINGLE FAMILY DETACHED LOTS, MANAGING ONLY THAT LOTS RUNOFF MUST MEET THE FOLLOWING SETBACKS:
 - THE OUTLINE SHALL BE A MINIMUM OF 5' FROM ANY PROPERTY LINE.
 - ANY EDGE OF THE FACILITY SHALL BE A MINIMUM OF 5' FROM ANY PROPERTY LINE AND 15' FROM FROM ANY PORTION OF THE HOUSE OR DECK, AND
 - THE FACILITY SHALL NOT BE LOCATED IN ANY EASEMENT OR LANDSCAPE BUFFER AREA.



* BIORETENTION TYPICAL SECTION

SCALE: N.T.S.

BIORETENTION ELEVATION TABLE

| | |
|-------------------------------------|---------|
| WSE/TOP OF EMBANKMENT | 431' |
| TOP OF MULCH LAYER | 430' |
| TOP OF PLANTING MEDIA | 429.75' |
| TOP OF SAND LAYER | 427.25' |
| TOP OF 4" #8 STONE LAYER | 426.75' |
| TOP OF 6" GRAVEL LAYER | 426.42' |
| TOP OF REV STORAGE/INV. OF 4" DRAIN | 425.92' |
| BOTTOM OF REV STORAGE | 425.17' |

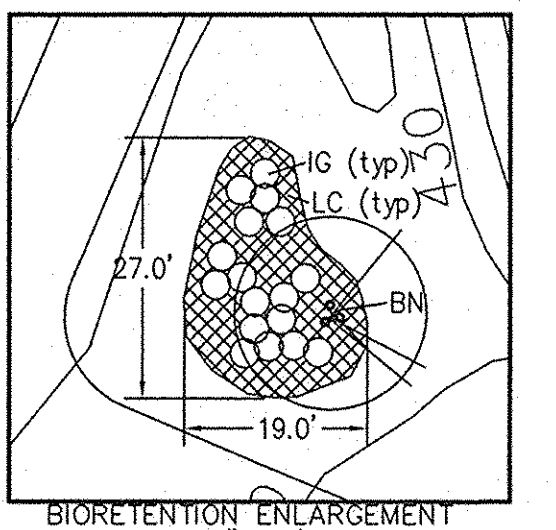
Table B.3.2 Materials Specifications for Bioretention

| Material | Specification | Size | Notes |
|---|---|---|---|
| Plantings | see Appendix A, Table A.4 | n/a | plantings are site-specific |
| planting soil [2.5' to 4' deep] | sand 35 - 60% silt 30 - 55% clay 10 - 25% | n/a | USDA soil types loamy sand, sandy loam or loam |
| mulch | shredded hardwood | | aged 6 months, minimum |
| pea gravel diaphragm and curtain drain | pea gravel: ASTM-D-448 ornamental stone: washed cobbles | pea gravel: No. 6 stone: 2" to 5" | |
| geotextile | Class "C" - apparent opening size (ASTM-D-4751), grab tensile strength (ASTM-D-4622), puncture resistance (ASTM-D-4833) | n/a | for use as necessary beneath underdrains only |
| underdrain gravel | AASHTO M-43 | 0.375" to 0.75" | |
| underdrain piping | F 758, Type PS 28 or AASHTO M-278 | 4" to 6" rigid schedule 40 PVC or SDR35 | 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underneath pipes |
| pooured in place concrete (if required) | MSHA Mix No. 3; f'c = 3500 psi @ 28 days, normal weight, air-entrained; reinforcing to meet ASTM-615-60 | n/a | on-site testing of poured-in-place concrete required: 28 day strength and slump test; all concrete design (cast-in-place or pre-cast) not using previously approved State or local concrete requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350 R/89; vertical loading [H-10 or H-20]; allowable horizontal loading (based on soil pressure); and analysis of potential cracking. |
| sand [1' deep] | AASHTO-M-6 or ASTM-C-33 | 0.075" to 0.04" | Sand substitutions such as Diabase and Graystone #10 are not acceptable. No calcium carbonated or dolomitic sand substitutions are acceptable. No "rock dust" can be used for sand. |

*Raingarden shall be installed on Lot 2. A developer's agreement shall be executed with the building permit.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

CHIEF, DEVELOPMENT ENGINEERING DIVISION
 DATE: 8/14/09
 DATE: 5/27/09



BIORETENTION ENLARGEMENT

SCALE: 1"=20'

BIORETENTION PLANT SCHEDULE

| KEY | QTY. | BOTANICAL/COMMON NAME | SIZE | SPACING |
|-----|------|--------------------------------------|--------------|---------|
| IG | 17 | ILEX GLABRA 'NANA' / DWARF INKBERRY | 12"-18" HGT. | 3' |
| LC | 60 | LOBELIA CARDINALIS / CARDINAL FLOWER | 1 QUART | 30" |
| BN | 1 | BETULA NIGRA / RIVER BIRCH | 7'-8" HGT. | |

PROPOSED CONDITIONS AND GRADING

SCALE: 1"=50'

REVISIONS

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 1140 Columbia, Maryland 21046
 Phone (410) 382-0868, Fax (410) 382-0897

SUPPLEMENTAL PLAN:
PROPOSED CONDITIONS AND GRADING
ROBERT MOXLEY PROPERTY
 3686 FOLLY QUARTER ROAD
 PARCEL 19, TAX MAP 23, GRID 8
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN

DATE: 09/29/05
 JOB NUMBER: M3716.00
 FILE NUMBER: 3716 SUPP
 PLOTTED: 08/21/07
 DRAWN BY: JB
 DESIGNED BY: JB
 CHECKED BY: JB

SUPPLEMENTAL PLAN

SHEET 1 of 4

F-07-023

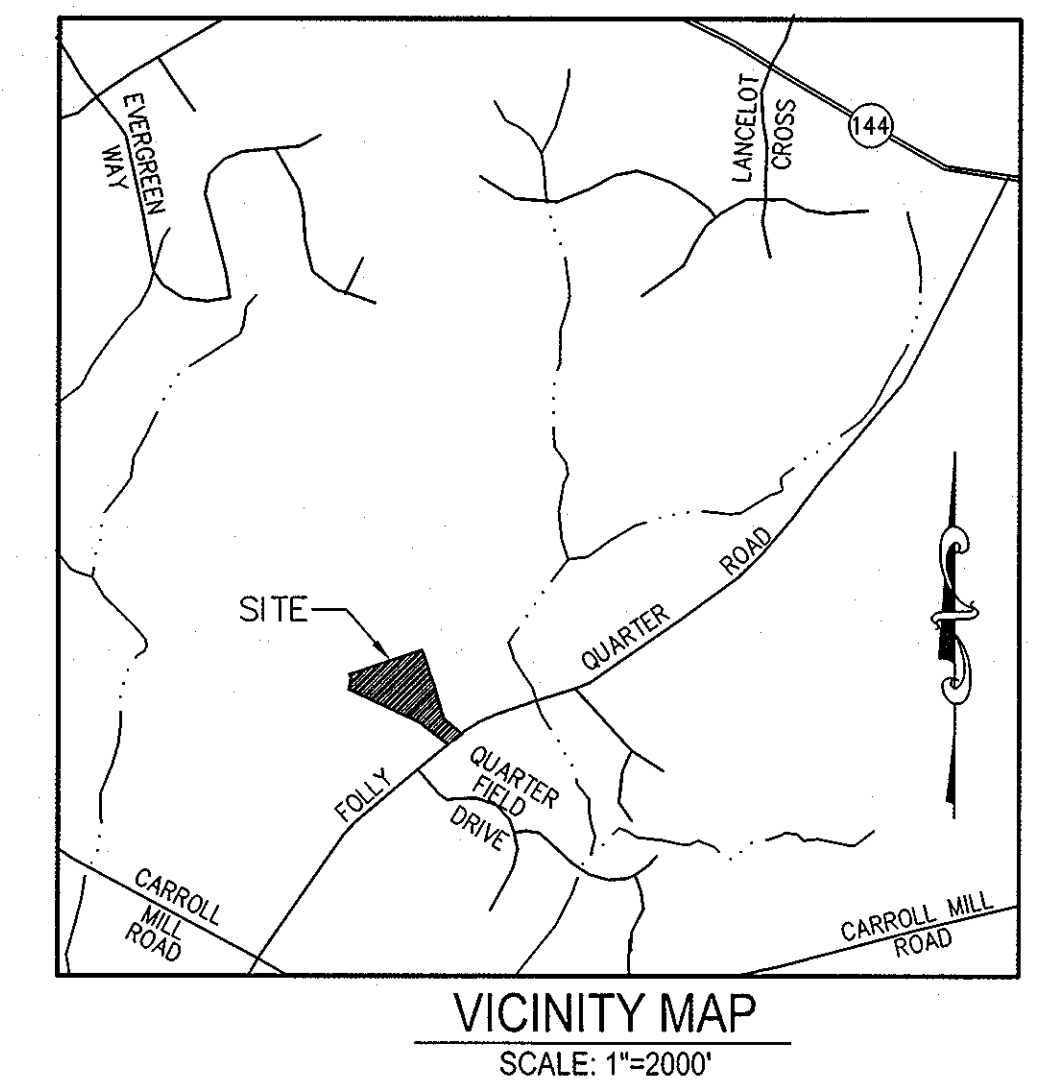
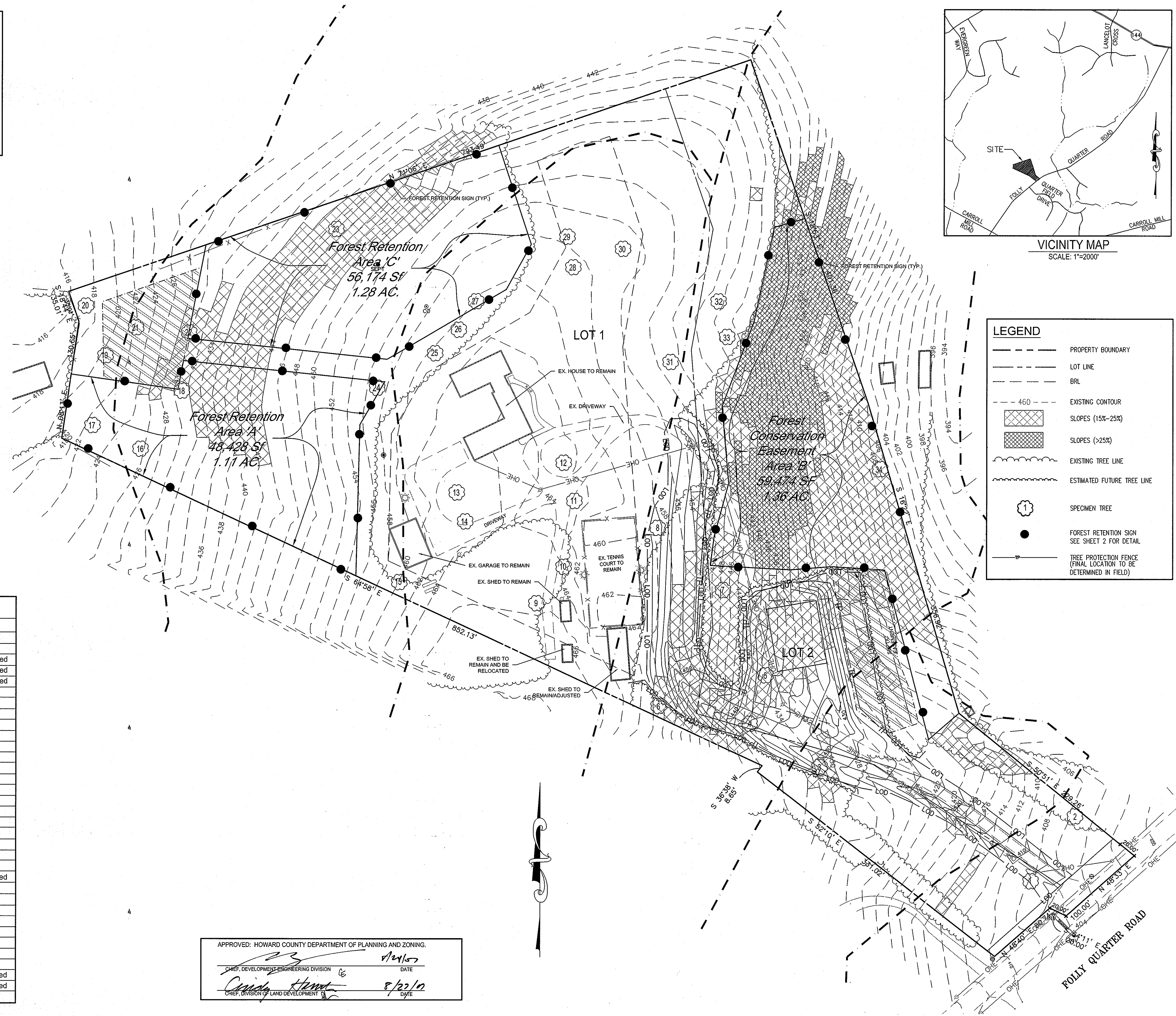
PROJECT DESCRIPTION AND SUMMARY

THE INTENT OF THIS MINOR SUBDIVISION IS TO DIVIDE THE EXISTING TRACT INTO TWO RESIDENTIAL LOTS. THESE LOTS ARE ALL A MINIMUM OF THREE ACRES PER ZONING.

NO AREAS OF STEEP SLOPES GREATER THAN 20,000 SF ARE PROPOSED TO BE DISTURBED.

FOREST PROTECTION ACTIVITIES DURING CONSTRUCTION SHOULD INCLUDE THE USE OF BLAZE ORANGE PLASTIC FENCE AND ROOT PRUNING PER DETAILS ON SHEET 2.

THIS PLAN COMPLIES WITH THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE FOR FOREST CONSERVATION BY RETAINING 3.75 ACRES OF ON-SITE FOREST UNDER EASEMENT.



LEGEND

- PROPERTY BOUNDARY
- LOT LINE
- BRL
- 460 --- EXISTING CONTOUR
- [Cross-hatched] SLOPES (15%-25%)
- [Diagonal-hatched] SLOPES (>25%)
- EXISTING TREE LINE
- ESTIMATED FUTURE TREE LINE
- (T) SPECIMEN TREE
- FOREST RETENTION SIGN SEE SHEET 2 FOR DETAIL
- TREE PROTECTION FENCE (FINAL LOCATION TO BE DETERMINED IN FIELD)

SPECIMEN TREE TABLE

| No. | DBH and Type | Approx. size (h x w) | Condition | Status |
|-----|--------------------|----------------------|-----------|---------------|
| 1 | 32" Tulip Poplar | 110' x 60' | Good | Save |
| 2 | 37" Tulip Poplar | 110' x 70' | Good | Save |
| 3 | 43" White Oak | 110' x 70' | Good | To be removed |
| 4 | 33" Tulip Poplar | 120' x 60' | Good | To be removed |
| 5 | 43" White Oak | 110' x 60' | Good | To be removed |
| 6 | 34" Red Oak | 100' x 60' | Good | Save |
| 7 | 48" White Oak | 100' x 70' | Good | Save |
| 8 | 54" White Oak | 110' x 70' | Good | Save |
| 9 | 44" White Oak | 100' x 70' | Good | Save |
| 10 | 31" Hickory | 100' x 60' | Good | Save |
| 11 | 39" Red Oak | 100' x 50' | Good | Save |
| 12 | 38" White Oak | 90' x 70' | Good | Save |
| 13 | 30" Red Oak | 90' x 40' | Good | Save |
| 14 | 33" Red Oak | 110' x 60' | Good | Save |
| 15 | 37" Red Oak | 100' x 50' | Good | Save |
| 16 | 40" White Oak | 110' x 40' | Good | Save |
| 17 | 39" White Oak | 110' x 60' | Poor | Save |
| 18 | 31" White Oak | 110' x 60' | Good | Save |
| 19 | 39" White Oak | 110' x 60' | Good | Save |
| 20 | 31" Red Oak | 110' x 60' | Good | Save |
| 21 | 37" White Oak | 100' x 60' | Good | Save |
| 22 | 38" White Oak | 110' x 60' | Poor | Save |
| 23 | 35" Red Oak | 100' x 40' | Good | To be removed |
| 24 | 32" White Oak | 110' x 80' | Good | Save |
| 25 | 35" White Oak | 90' x 50' | Good | Save |
| 26 | 30" Red Oak | 90' x 40' | Good | Save |
| 27 | 41" White Oak | 90' x 50' | Fair | Save |
| 28 | 42" Red Oak | 100' x 60' | Good | Save |
| 29 | 33" Red Oak | 100' x 60' | Good | Save |
| 30 | 40" White Oak | 100' x 50' | Good | Save |
| 31 | 30" Blackgum | 80' x 40' | Good | Save |
| 32 | 30" White Pine | 80' x 40' | Good | To be removed |
| 33 | 45" Twin White Oak | 90' x 80' | Good | To be removed |
| 34 | 31" Ash | 110' x 50' | Good | Save |

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
 [Signature] DATE 8/24/10
 [Signature] DATE 8/22/10

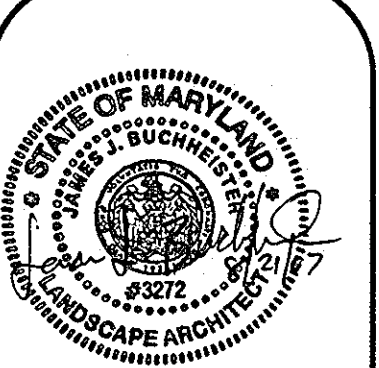
REVISIONS

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FOREST CONSERVATION PLAN
ROBERT MOXLEY PROPERTY
 3686 FOLLY QUARTER ROAD
 PARCEL 19, TAX MAP 23, GRID 8
 HOWARD COUNTY, MARYLAND



GRAPHIC SCALE 1"=50'
 DATE: 09/29/05
 JOB NUMBER: M3716.00
 FILE NUMBER: 3716 FCP.dwg
 PLOTTED: 08/21/07
 DRAWN BY: JB
 DESIGNED BY: JB
 CHECKED BY: JB

FOREST CONSERVATION PLAN
 SHEET 3 of 4
 F-07-023

APPENDIX E
FOREST CONSERVATION WORKSHEET

| I. BASIC SITE DATA | | ACRES (1/10 acre) |
|---|--|----------------------|
| Gross Site Area | | 11.48 |
| Area Within 100 Year Floodplain | | 0 |
| Area Within Agricultural Use or Preservation Parcel (If Applicable) | | 0 |
| Net Tract Area | | 11.48 |
| Land Use Category (R-RLD, R-RMD, R-S, C/I/O, I) | | RMD |

| II. INFORMATION FOR CALCULATIONS | | ACRES (1/10 acre) |
|---|--|----------------------|
| A. Net Tract Area | | 11.48 |
| B. Reforestation Threshold (<u>25</u> % x A) | | 2.9 |
| C. Afforestation Minimum (<u>20</u> % x A) | | N/A |
| D. Existing Forest on Net Tract Area | | 6.1 |
| E. Forest Areas to Be Cleared | | 2.35 |
| F. Forest Areas to Be Retained | | 3.75 |

III. DETERMINING REQUIREMENTS: AFFORESTATION OR REFORESTATION

1. REFORESTATION

If existing forest areas equal or exceed the afforestation minimum (if D equals or is more than C), and clearing of forest areas is proposed, reforestation requirements may apply.

GO TO SECTION IV

If existing forests exceed the afforestation minimum (if D equals or is more than C) and no clearing of existing forest resources is proposed, no reforestation is required. No further calculations are needed.

2. AFFORESTATION

If existing forest area are less than the afforestation minimum (if D is less than C), afforestation requirements apply.

GO TO SECTION V

E-1

IV. REFORESTATION CALCULATIONS

| | ACRES (1/10 acre) |
|--|----------------------|
| A. Net Tract Area | 11.48 |
| B. Reforestation Threshold (<u>25</u> % x A) | 2.9 |
| C. Existing Forest on Net Tract Area | 6.1 |
| D. Forest Areas to Be Cleared | 2.35 |
| E. Forest Areas to Be Retained | 3.75 |
| F. Forest Areas Cleared Above Reforestation Threshold (D - F, if F equals or is greater than B, Alternate 1) (D - B, if F is less than B, Alternate 2) | 2.35 |
| G. Forest Areas Cleared Below Reforestation Threshold (B - F, if applicable) | 0 |
| H. Forest Areas Retained Above Reforestation Threshold (F - B, Retention Credit, if applicable) | 0.9 |

SELECT THE ALTERNATIVE THAT APPLIES:

1. CLEARING ABOVE THE THRESHOLD ONLY

If forest areas 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 $G \times 1/4$ | 0.59 |
| Credit for forest areas retained above threshold $I = \text{Retention Credit}$ | 0.85 |
| Total Reforestation required $(2.35 \times 1/4) - 0.85 = 0.59 - 0.85 = -0.26$ $(G \times 1/4) - I$ | 0 |

If the total reforestation requirement is equal to or less than 0, no reforestation is required.

2. CLEARING BELOW THE THRESHOLD

If forest areas to be retained are less than the reforestation threshold (if F is less than B), The following calculations apply:

| | |
|--|-----|
| Reforestation for clearing above threshold $G \times 1/4$ | N/A |
| Reforestation for clearing below threshold $H \times 2$ | N/A |

E-2

Total Reforestation required
 $(G \times 1/4) + (H \times 2)$

ACRES
(1/10 acre)

N/A

Since clearing occurs below the threshold, no forest retention credit is possible.

V. AFFORESTATION CALCULATIONS

| | ACRES (1/10 acre) |
|---|----------------------|
| A. Net Tract Area | N/A |
| B. Afforestation Minimum (<u>20</u> % x A) | |
| C. Existing Forest on Net Tract Area | |
| D. Forest Areas to Be Cleared | |
| E. Forest Areas to Be Retained | |

SELECT THE ALTERNATIVE THAT APPLIES:

1. No Clearing below the Minimum

If existing forests are less than the afforestation minimum (if D is less than C) and no clearing is proposed, the following calculations apply:

Total afforestation required
C - D

Afforestation must make total forest area equal the minimum required.

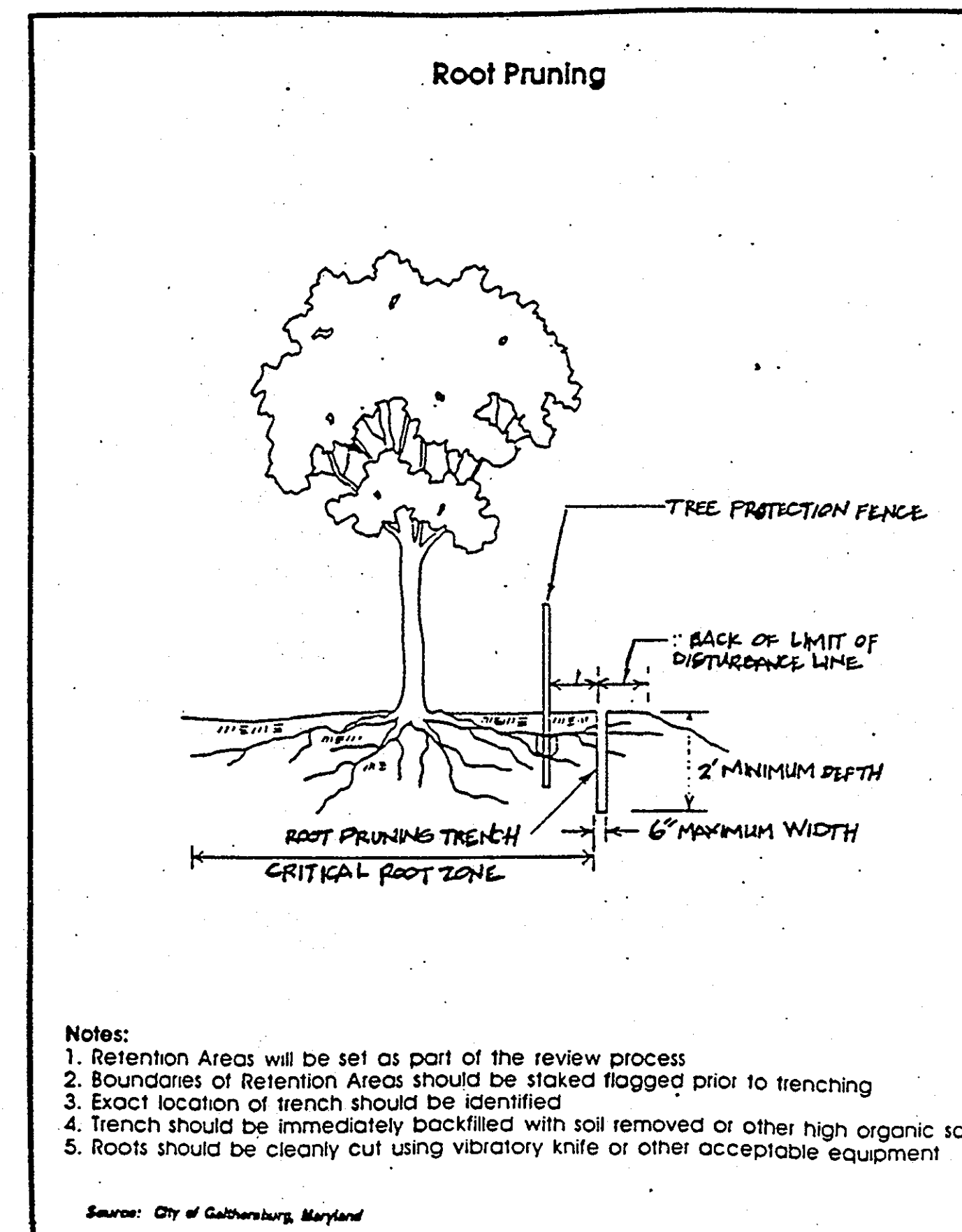
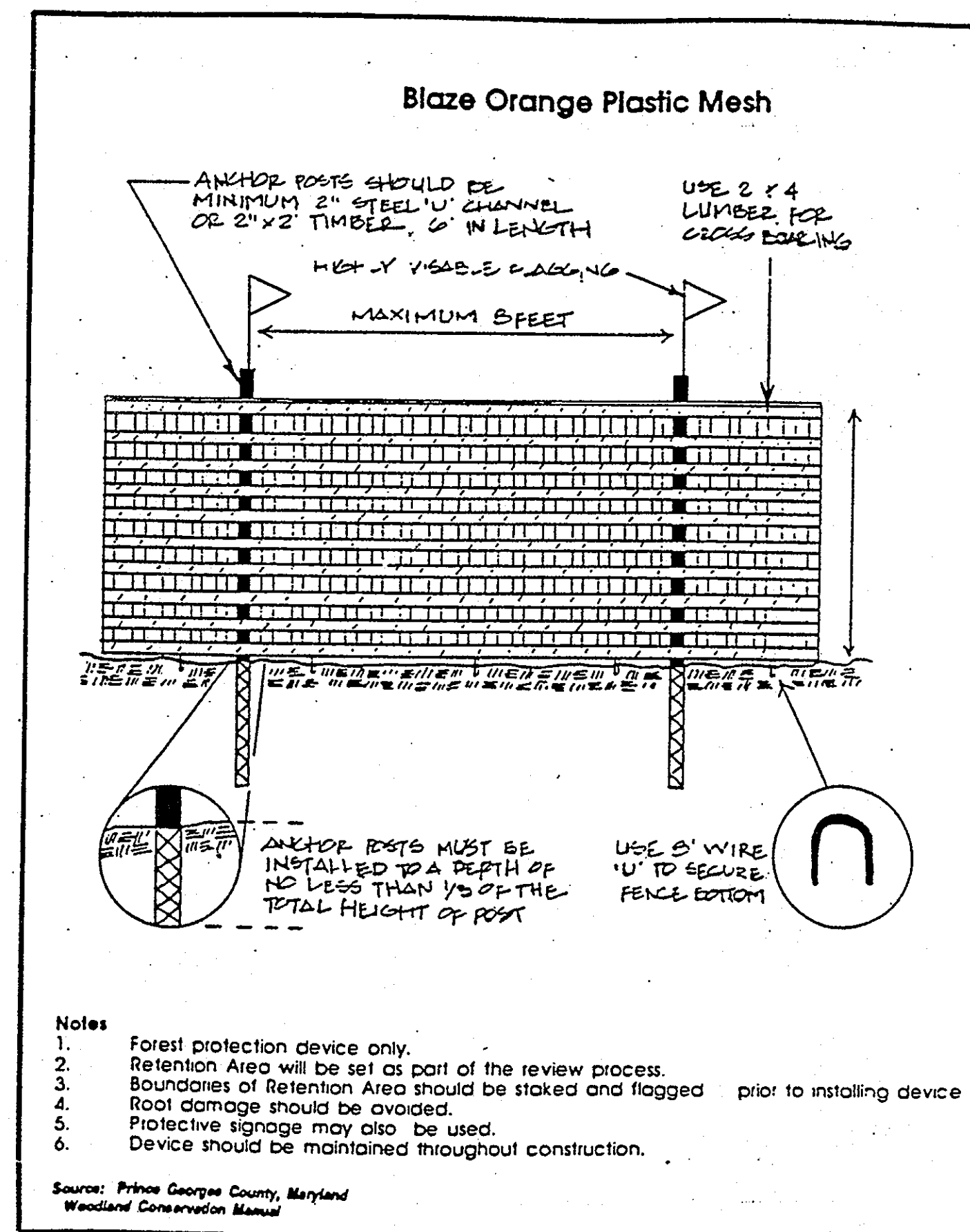
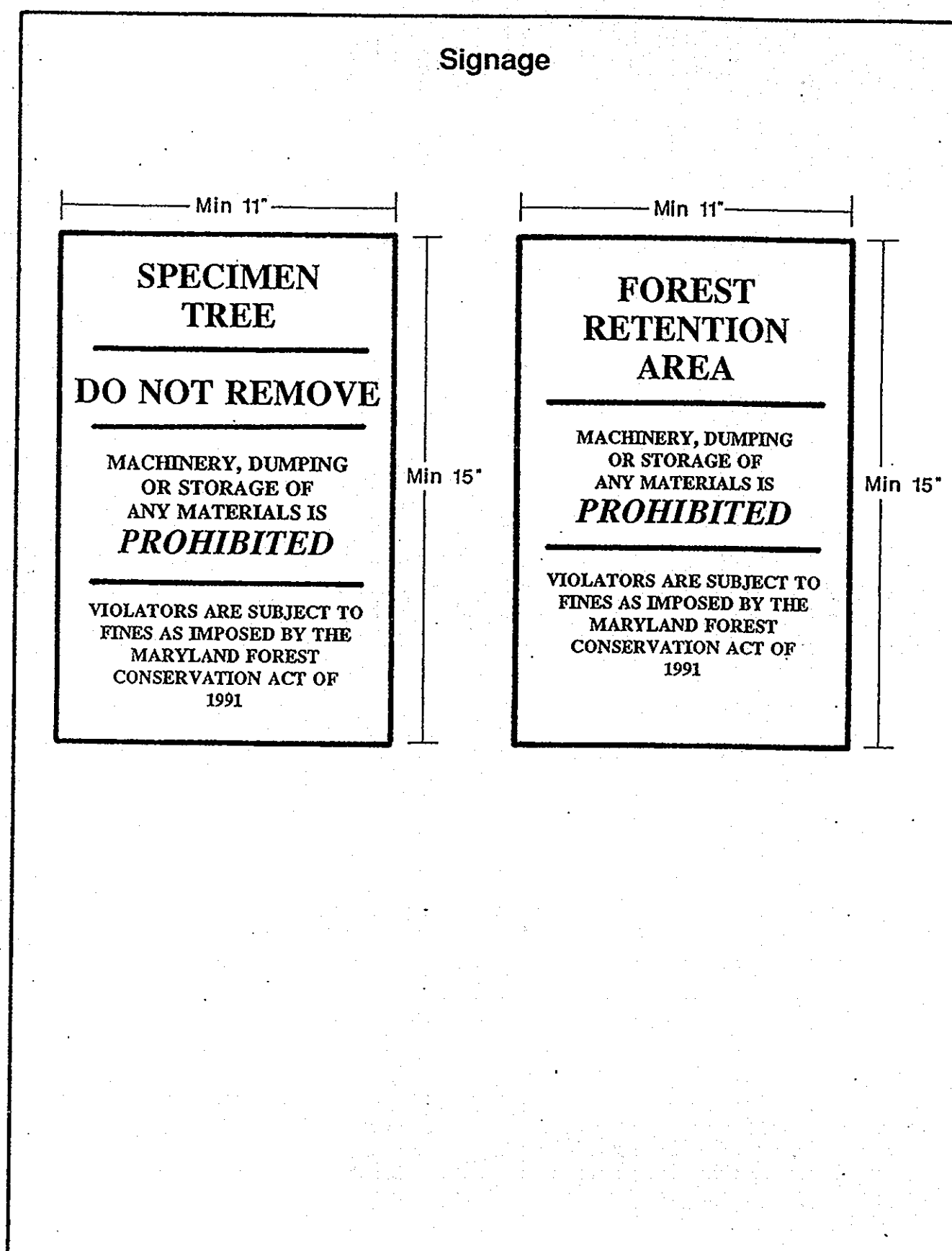
2. Clearing below the Minimum

If existing forests are less than the afforestation minimum (if D is less than C) and clearing is proposed, the following calculations apply:

Afforestation for unafforested areas below minimum
C - D
Afforestation for Clearing below Minimum
E X 2
Total Afforestation Required
 $(C - D) + (E \times 2)$

Afforestation requires the total forest area be equal to the minimum and it requires compensation for clearing.

E-3



| REVISIONS |
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PLANS PREPARED FOR:
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DATE: 09/29/05
JOB NUMBER: M3716.00
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DRAWN BY: JB
DESIGNED BY: JB
CHECKED BY: JB
FOREST CONSERVATION PLAN
SHEET

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.
CHIEF, DEVELOPMENT ENGINEERING DIVISION
DATE: 8/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT
DATE: 8/20/07