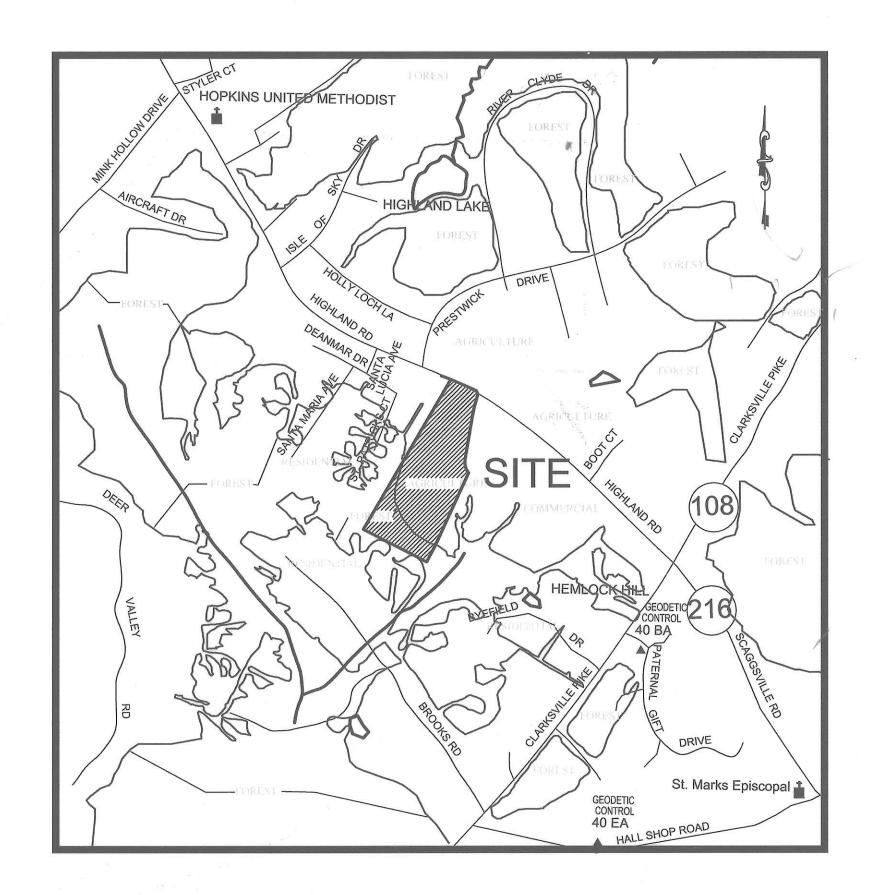
# PRELIMINARY PLAN OWINGS PROPERTY, LOT 3

5th ELECTION DISTRICT

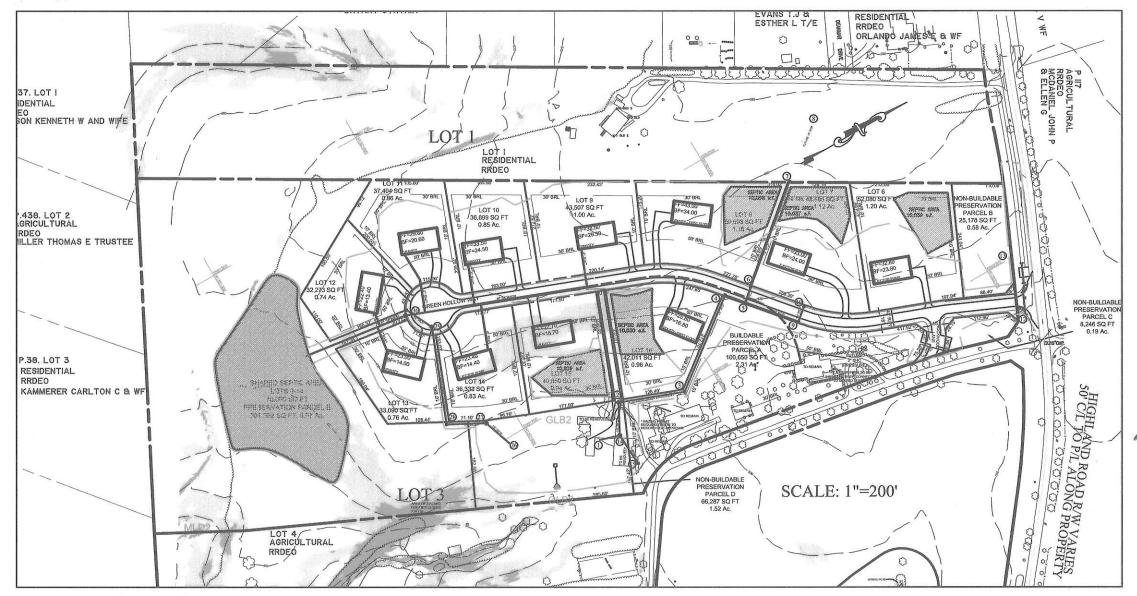
HOWARD COUNTY, MARYLAND

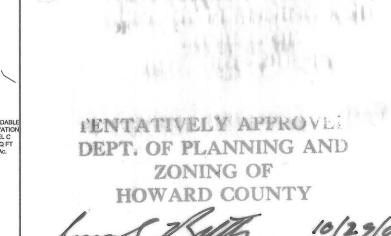
# SHEET INDEX

- . COVERSHEET
- 2. PRELIMINARY GRADING PLAN
- 3-4. PRELIMINARY FOREST CONSERVATION AND LANDSCAPE PLAN



**VICINITY MAP** SCALE: 1"=1000"





AVAILABLE RECORDS BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF THE MAINS BY DIGGING TEST PITS BY HAND AT ALI UTILITY CROSSINGS WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY BEFORE PROCEEDING WITH CONSTRUCTION.

### SITE DATA

1. LOCATION: TAX MAP 40, PARCEL 44

4. GROSS AREA OF PROJECT: 24.5002 AC 5. NO. OF DWELLING UNITS: 12

6. AREA OF PROPOSED RESIDENTIAL LOTS 6-16: 10.4454 AC

1 BUILDABLE PRESERVATION PARCEL

STANDARDS UNLESS WAIVERS HAVE BEEN APPROVED.

8. LOTS 6-8, 15 & 16 WILL HAVE PRIVATE SEPTIC SYSTEMS; SHARED SEPTIC SYSTEM FOR

12. STREET LIGHTING IS NOT REQUIRED FOR THIS SITE.

13. SEDIMENT & EROSION CONTROL PER SEPARATE PLAN

14. THE MICROPOOL EXTENDED DETENTION POND SHOWN IS APPROXIMATE IN SIZE. SHAPE, AND LOCATION. PRELIMINARY DESIGN AND COMPUTATIONS HAVE BEEN DONE. THE ACTUAL DESIGN MAY CHANGE WHEN FINAL PLAN IS PREPARED.

15. THIS PROPERTY IS NOT WITHIN THE METROPOLITAN DISTRICT.

B. CLUSTERING LOTS & CONSOLIDATING SEPTIC AREAS TO MINIMIZE

DISTURBANCE TO FOREST AREAS RESOURCES.

THE SHARED SEPTIC WILL BE CONSTRUCTED OUTSIDE OF THE

 D. PRESERVING EXISTING VEGETATION ALONG HIGHLAND ROAD. E. PRESERVING RURAL & SCENIC VIEWS FROM HIGHLAND ROAD BY LOCATING

HOUSING A MINIMUM OF 200' FROM THE R/W & BY PRESERVING MOST OF THE

19. PLANNING & ZONING FILE NUMBERS: F-82-32, F-84-58, VP-82-43, VP-84-21

20. A FOREST CONSERVATION PLAN IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD CO. CODE & THE FOREST CONSERVATION MANUAL, PROVIDED AS PART

OF THIS PRELIMINARY PLAN FOR THIS SITE. DEWBERRY & DAVIS LLC, FEB 2002

22. SOME OF THE EXISTING STRUCTURES ON PARCEL A ARE TO REMAIN.

23. WATERSHED: PATUXENT, STREAM USE DESIGNATION: NATURAL 24. PROPOSED POND IS A HAZARD CLASS 'A'.

25. Rev & WQv WILL BE PROVIDED BY A MICROPOOL EXTENDED DETENTION POND 26. Rev WILL BE PROVIDED BY GRASS CHANNELS IN THE ROADWAY.

STORM WATER MANAGEMENT SUMMARY WQv = 0.221 AC FT

Rev = 0.118 AC FTCPv (1 YEAR) = 0.399 AC FT

27. THIS PLAN SHALL BE SUBJECT TO THE FOURTH EDITION OF THE HOWARD COUNTY

AFFORESTATION OF 1.26 AC. UNLESS OTHERWISE DETERMINED AT FINAL PLAN STAGE AREA OF FOREST TO BE RETAINED IS 3.64 AC.

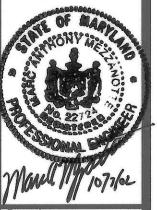
## PRELIMINARY PLAN **OWINGS PROPERTY RESUBDIVISION OF LOT 3**

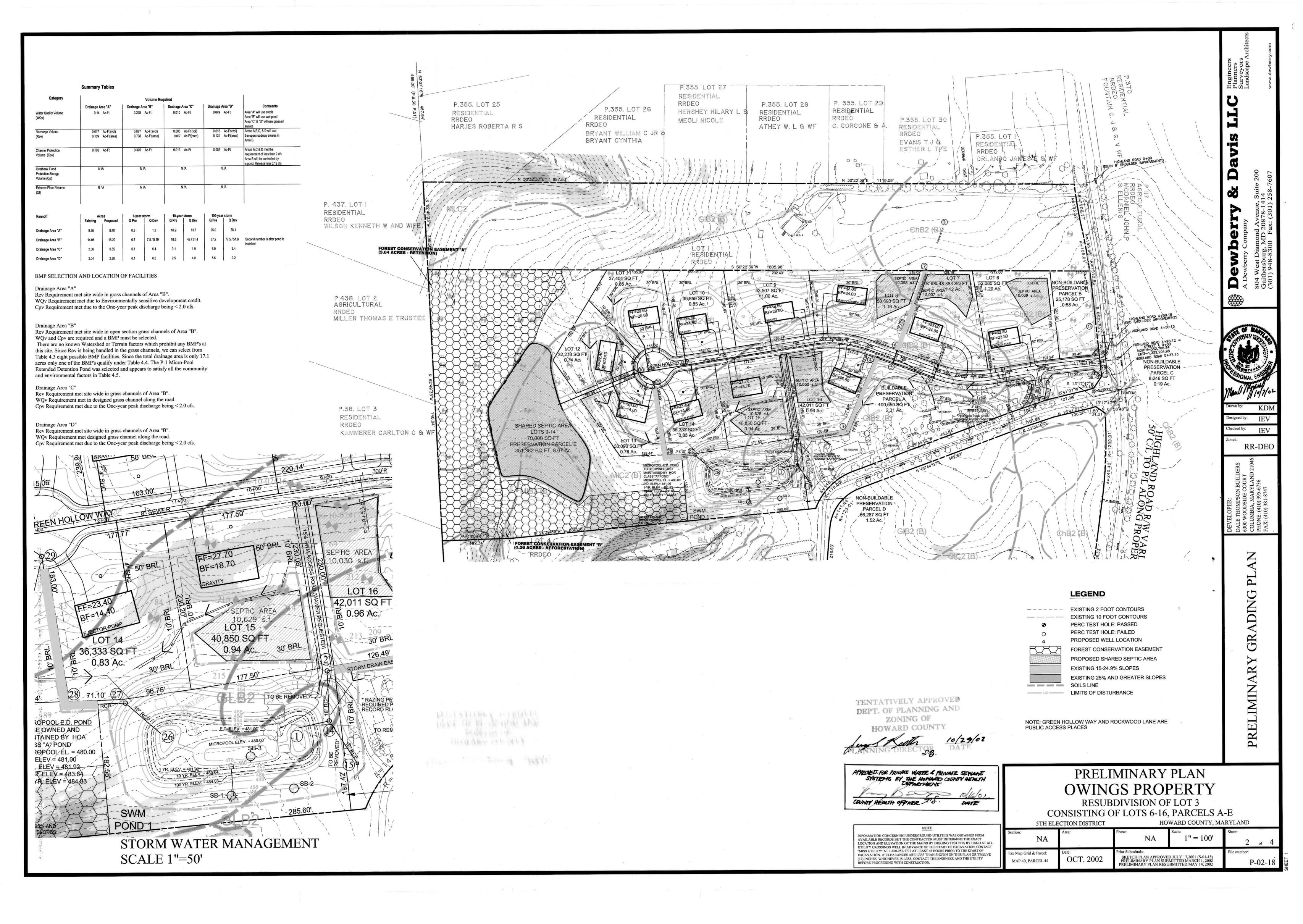
CONSISTING OF LOTS 6-16, PARCELS A-E

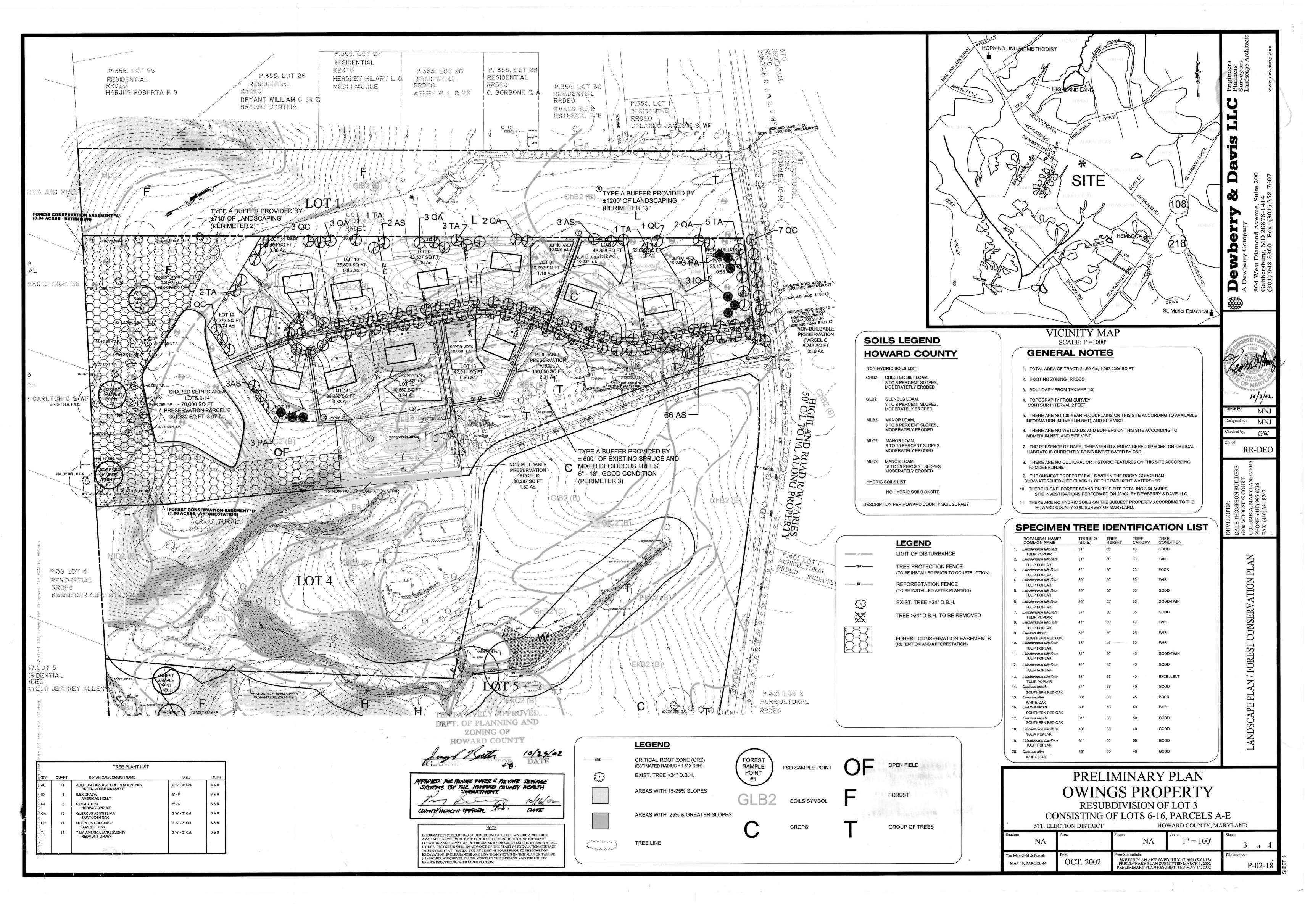
5TH ELECTION DISTRICT

HOWARD COUNTY, MARYLAND

ion: NA	Area:	Phase:	AS SHOWN	Sheet:
Map Grid & Parcel:	Date:	Prior Submittals:		File number:
1AP 40, PARCEL 44	OCT. 2002	SKETCH PLAN APPROVED JULY 17,2001 (S-01-18) PRELIMINARY PLAN SUBMITTED MARCH 1, 2002		P-02-1



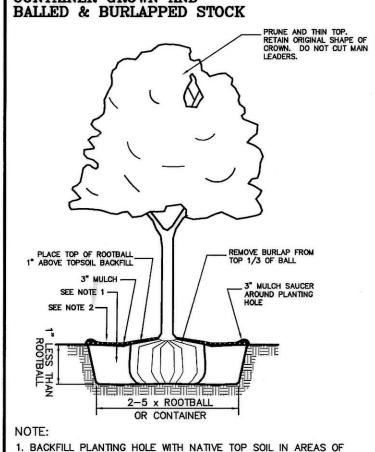




2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE. . ROOT DAMAGE SHOULD BE AVOIDED. PROTECTIVE SIGNAGE IS REQUIRED. 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

PLANTING DETAIL FOR DECIDUOUS & EVERGREEN TREES & SHRUBS CONTAINER GROWN AND

. FOREST PROTECTION DEVICE ONLY



UNDISTURBED SOIL. USE HIGH QUALITY TOPSOIL BACKFILL IN

AREAS OF DISTURBED SOIL.

AREAS OF DISTORBED SOIL.

2. MAKE TOP OF PLANTING HOLE LEVEL. SET CENTER OF TOP OF ROOTBALL, EVEN WITH ORIGINAL GRADE ON SLOPING AREAS.

3. USE STAKING FOR TREES UP TO 3" CALIPER ONLY IN AREAS OF HIGH WIND. REMOVE AFTER 1ST GROWING SEASON. SIGNAGE REFORESTATION AREAS **FOREST** CONSERVATION AREA **AFFORESTATION** AREA Do Not Disturb Seedlings, Shrubs or Trees VIOLATORS ARE SUBJECT T FINES IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991 ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.
 SIGNS SHOULD BE PROPERLY MAINTAINED.
 AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR SIGNS. 4. SIGNS SHOULD BE PLACED AT A MAX. INTERVAL OF 100' ALONG ALL REFORESTATION AREAS. (PLACE ALONG REFORESTATION FENCE IF INSTALLED)

**FOREST CONSERVATION EASEMENT** 

THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE

PRACTICES AS DEFINED IN THE DEED OF FOREST CONSERVATION EASEMENT ARE

REQUIREMENTS OF SECTION 16.12000 OF THE HOWARD COUNTY CODE. FOREST CONSERVATION ACT. NO CLEARING, GRADING, OR CONSTRUCTION PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT; HOWEVER, FOREST MANAGEMENT

STANDARD NOTES:

FOREST RETENTION AREAS **FOREST** CONSERVATION AREA Do Not Disturb MACHINERY, DUMPING **PROHIBITED** VIOLATORS ARE SUBJECT 1 FINES IMPOSED BY THE MARYLAND FORES 1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED. . SIGNS SHOULD BE PROPERLY MAINTAINED 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR SIGNS. 4. SIGNS SHOULD BE PLACED AT A MAX. INTERVAL OF 100' ALONG ALL L.O.D.'s AND/OR STREAM BUFFERS IN AREAS OF FOREST RETENTION.

FCE NOTES

ANY FOREST CONSERVATION EASEMENT (FCE) AREA SHOWN HEREON IS SUBJECT TO PROTECTIVE COVENANTS WHICH MAY BE FOUND IN THE LAND **RECORDS OF HOWARD COUNTY WHICH RESTRICT THE** DISTURBANCE AND USE OF THESE AREAS.

FORESTED AREAS OCCURRING OUTSIDE OF THE FCE SHALL NOT BE CONSIDERED PART OF THE FCE AND SHALL NOT BE SUBJECT TO PROTECTIVE LAND

LIMITS OF DISTURBANCE SHALL BE RESTRICTED TO AREAS OUTSIDE THE LIMIT OF TEMPORARY FENCING OR THE FCE BOUNDARY, WHICHEVER IS GREATER.

THERE SHALL BE NO CLEARING, GRADING,

THE FOREST CONSERVATION EASEMENT, EXCEPT AS PERMITTED BY HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING. NO STOCKPILES, PARKING AREAS, EQUIPMENT

CLEANING AREAS, ETC. SHALL OCCUR WITHIN AREAS

**CONSTRUCTION OR DISTURBANCE OF VEGETATION IN** 

DESIGNATED AS FOREST CONSERVATION EASEMENTS. TEMPORARY FENCING SHALL BE USED TO PROTECT FOREST RESOURCES DURING CONSTRUCTION. THE FENCING SHALL BE PLACED ALONG ALL FCE **BOUNDARIES WHICH OCCUR WITHIN 15 FEET OF THE** 

PERMANENT SIGNAGE SHALL BE PLACED 50-100' **APART ALONG THE BOUNDARIES OF ALL AREAS** INCLUDED IN FOREST CONSERVATION EASEMENTS. THE AREA OF STREAM BUFFER/REFORESTATION PLANTING SHALL BE PROTECTED DURING CONSTRUCTION PER THE FOLLOWING:

FOREST PROTECTION PROCEDURES-PRECONSTRUCTION PHASE

STRESS REDUCTION AND PROTECTION OF SPECIMEN TREES ISOLATED FROM FOREST RETENTION AREAS AND GENERAL FOREST RETENTION AREAS (AS THEY MAY APPLY)

1) THE EDGE OF THE WOODS TO BE PROTECTED WILL BE MARKED (STAKED OR FLAGGED) IN THE FIELD PER THE LIMITS 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 "OFF LIMITS" TO ANY CONSTRUCTION ACTIVITIES. THE PROTECTIVE FENCING SHALL BE INSTALLED AT THE OUTSIDE EDGE OF FORESTED AREAS AND SPECIMEN TREES TO BE RETAINED AND SHOULD BE COMBINED WITH SEDIMENT CONTROL DEVICES WHEN POSSIBLE. THE LIMIT OF CRITICAL ROOT ZONE AND THEREFORE THE LOCATION OF THE PROTECTIVE DEVICES IS TO BE DETERMINED AS FOLLOWS:

A) ISOLATED SPECIMEN TREES- 1.5 FEET OF PROTECTIVE RADIUS PER

B) EDGE OF FORESTED ARE- 1 FOOT OF PROTECTIVE RADIUS/INCH OF DBH OR AN EIGHT FOOT PROTECTIVE RADIUS, WHICHEVER IS GREATER.

2) CONSTRUCTION ACTIVITIES EXPRESSLY PROHIBITED WITHIN THE PRESERVATION AREAS ARE:

A) PLACING OR STOCKPILING BACKFILL OR TOP SOIL IN PROTECTED

B) FELLING TREES INTO PROTECTED AREAS C) DRIVING CONSTRUCTION EQUIPMENT INTO OR THROUGH PROTECTED

D) BURNING IN OR IN CLOSE PROXIMITY TO PROTECTED AREAS

E) STACKING OR STORING SUPPLIES OF ANY KIND F) CONCRETE WASH-OFF AREAS

**G) CONDUCTING TRENCHING OPERATIONS** H) GRADING BEYOND THE LIMITS OF DISTURBANCE

I) PARKING VEHICLES OR CONSTRUCTION EQUIPMENT J) REMOVAL OR ROOT MAT OR TOPSOIL K) SITING AND CONSTRUCTION OF: UTILITY LINE, ACCESS ROADS

IMPERVIOUS SURFACES, STORM WATER MANAGEMENT DEVICES, AND

3) PROTECTIVE FENCING (SEE FIGURE "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 "FOREST RETENTION AREA" OR "SPECIMEN TREE" (SEE FIGURE "SIGNAGE"). THE GENERAL CONTRACTOR SHALL TAKE GREAT CARE TO ASSURE THE RESTRICTED AREAS ARE NOT VIOLATED AND THAT ROOT SYSTEMS ARE PROTECTED FROM SMOTHERING, FLOODING, EXCESSIVE WETTING FROM DE-WATERING OPERATIONS. OFF-SITE RUN-OFF, SPILLAGE AND DRAINAGE OR SOLUTIONS CONTAINING MATERIALS HAZARDOUS TO TREE ROOTS.

4) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TREE DAMAGED OR DESTROYED WITHIN THE PRESERVATION AREAS WHETHER CAUSED BY THE CONTRACTOR, HIS AGENTS, EMPLOYEES, SUBCONTRACTORS, OR LICENSEES.

5) FOOT TRAFFIC SHALL BE KEPT TO A MINIMUM IN THE PROTECTIVE

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 THAT ARE DESIGNATED FOR PRESERVATION. IT 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-CONSTRUCITON MEETING SHALL BE HELD WITH LOCAL

FOREST PROTECTION PROCEDURES-CONSTRUCTION PHASE

CONSTRUCTION AND CORRECTIVE MEASURES TAKEN WHEN APPROPRIATE.

THE FOLLOWING SHALL BE MONITORED: A) SOIL COMPACTION **B) ROOT INJURY-PRUNE AND MONITOR; CONSIDER** 

**CROWN REDUCTION** C) LIMB INJORY-PRUNE AND MONITOR D) FLOODED CONDITION-DRAIN AND MONITOR: CORRECT PROBLEM

E) DROUGHT CONDTIONS-WATER AND MONITOR; CORRECT PROBLEM F) OTHER STRESS SIGNS-DETERMINE REASON, CORRECT, AND MONITOR

FOREST PROTECTION PROCEDURES-POST-CONSTRUCTION PHASE

FOREST AND TREE CONDITIONS SHOULD BE MONITORED DURING

THE FOLLOWING MEASURES SHALL BE TAKEN:

1) CORRECTIVE MEASURES IF DAMAGES WERE INCURRED DUE TO NEGLIGENCE: a. STRESS REDUCTION

b. REMOVAL OF DEAD OR DYING TREES. THIS MAY BE DONE ONLY IF TREES POSE AN IMMEDIATE SAFETY

2) REMOVAL OF TEMPORARY STRUCTURES: a. NO BURIAL OF DISCARDED MATERIALS WILL OCCUR

ON-SITE WITHIN THE CONSERVATION AREA. **b. NO OPEN BURNING WITHIN 100 FEET OF A WOODED** 

c. ALL TEMPORARY FOREST PROTECTION STRUCTURES WILL

BE REMOVED AFTER CONSTRUCTION. d. REMOVE TEMPORARY ROADS BY REMOVING STONE

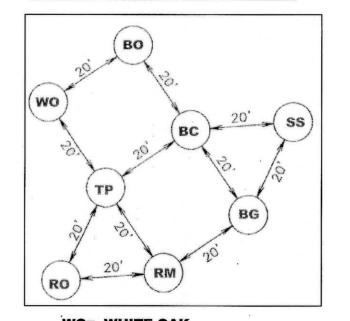
OR BROADCASTING MULCH; PRE-CONSTRUCTION **ELEVATION SHOULD BE MAINTAINED.** 

e. AERATE COMPACTED SOIL. f. REPLANT DISTURBED SITES WITH TREES, SHRUBS

AND/OR HERBACEOUS PLANTS. a. RETAIN SIGNS FOR RETENTION AREAS OR SPECIMEN TREES.

h. A COUNTY OFFICIAL SHALL INSPECT THE ENTIRE SITE.

TYPICAL PLANTING DIAGRAM



WO= WHITE OAK BO= BLACK OAK TP= TULIP POPLAR BC= BLACK CHERRY

RM= RED MAPLE

**BG= BLACK GUM** SS= SHADBLOW SERVICEBERRY RO= RED OAK

NOTE TO CONTRACTOR:

1. THE CONTRACTOR SHOULD REMOVE ANY DEAD OR DISEASED TREES.

2. TREES ARE TO BE PLACED IN A RANDOM PATTERN TO CREATE A NATURAL EFFECT. THE ARE TO BE MIXED IN THE RATIOS DESCRIBED ABOVE AND THEY ARE TO BE SPACED APPROXIMATELY 20 FEET APART.

**PLANTING PLAN** 

THE TREE SPECIES SELECTED ARE CONSISTENT WITH THE MIXED UPLAND OAK ASSOCIATION NATIVE TO THE SOILS. THE COUNTY MANUAL RECOMMENDS A PLANTING DENSITY OF 100 STEMS PER ACRE IF 2" STOCK IS PLANTED, AND THE SCHEDULE BELOW MEETS THAT RECOMMENDATION. SPECIES WILL BE RANDOMLY MIXED AND PLANTED APPROXIMATELY 20' APART FROM OTHER PLANTINGS. STRAIGHT ROWS SHOULD BE AVOIDED TO SIMULATE A MORE NATURAL ARRANGEMENT. THE TOTAL NUMBER OF PLANTS WILL BE 126 TREES BASED ON 1.26 ACRES AT 100 TREES/ACRES.

TULIP POPLAR DOM. BLACK GUM DOM. **BLACK CHERRY (UNDERSTORY)** S. RED OAK DOM. FLOWERING DOGWOOD (UNDERSTORY) BLACK GUM (UNDERSTORY) RED MAPLE (UNDERSTORY)

TREE PLANTING LIST

CIENTIFIC NAME WHITE OAK **QUERCUS ALBA** QUERCUS VELUTINA S. RED OAK **QUERCUS FALCATA** LIRIODENDRON TULIPIFERA 15 19 **TULIP POPLAR BLACK CHERRY** PRUNUS SEROTINA RED MAPLE **ACER RUBRUM** NYSA SYLVATICA SHADBLOW SERVICEBERRY AMELACHIER CANADENSIS 10

OTHER PLANTING INSTRUCTIONS

PLANT MATERIAL SHOULD BE OBTAINED FROM A REPUTABLE NURSERY AND ORDERED 3 TO 6 MONTHS BEFORE DESIRED DELIVERY. DELIVERY SHOULD BE ARRANGED TO OCCUR AS CLOSE TO PLANTING TIME AS POSSIBLE, AND STOCK SHOULD BE PROTECTED FROM DIRECT SUN AND DRYING UNTIL PLANTING. PLANTING DATES ARE OCTOBER THROUGH MAY, WITH SPRING MONTHS PREFERRED.

STOCK SHOULD BE INSPECTED BEFORE PLANTING FOR SIGNS OF DAMAGE, DISEASE, OR INSECT INFESTATION, VIGOR, AND SIZE. DAMAGED OR INFERIOR PLANTS SHOULD

WHITE OAK DOM.

UPON PLANTING CONTAINER GROWN STOCK, PLANTS SHOULD BE REMOVED FROM THE CONTAINER AND THE SOIL GENTLY LOOSENED FROM THE ROOTS. IF ROOTS ENCIRCLE THE ROOT BALL, OR ARE J-SHAPED OR KINKED, CONSIDER REPLACEMENT DO NOT TRIM ROOTS ON-SITE.

THE PLANTING FIELD SHOULD BE DUG AND BACK FILLED WITH THE NATIVE SOIL. RAKE THE SURFACE AND COVE THE DISTURBED AREAS WITH APPROXIMATELY 4 INCHES OF MULCH, BUT AVOID BURYING THE BASE OF THE STEM TO PREVENT FUNGAL ROT. WATER IMMEDIATELY TO SETTLE THE SOIL AROUND THE ROOTS.

MAINTENANCE AND PROTECTION OF PLANTED AREA

SOILS SHOULD BE TESTED TO DETERMINE THE NEED FOR FERTILIZER. IF FERTILIZER IS NEEDED, IT SHOULD BE APPLIED AT THE TESTING LAB'S RECOMMENDED RATES AFTER THE FIRST GROWING SEASON (LATE FALL OR EARLY SPRING). ORGANIC OR SLOW-RELEASE FERTILIZERS ARE PREFERRED.

WATERING SHOULD BE PLANNED TO COMPENSATE FOR DEFICIENT RAINFALL. NEW PLANTINGS NEED WATER ONCE A WEEK FOR THE FIRST GROWING SEASON. THE SECOND YEAR, WATERING MAY ONLY BE NECESSARY IN JULY AND AUGUST, AND IN SUBSEQUENT YEARS ONLY WATER DURING DROUGHT PERIODS. WATERING SHOULD BE DONE SLOWLY ENOUGH TO PERMIT DEEP SOAKING OF THE ROOT ZONE.

MONITOR THE YOUNG TREES FOR SEVERAL YEARS FOR HEALTH, INSECT DAMAGE, AND INVASIVE VINES. REPLACE DEAD AND DYING TREES. THE SURVIVAL RATE SHALL BE A MINIMUM OF 90% OF THE PLANTINGS AFTER THE FIRST GROWING SEASON, AND 75% AFTER THE SECOND SEASON. DO NOT SPRAY INSECTICIDES UNLESS IT HAS BEEN DETERMINED THAT AN INFESTATION WITH THE POTENTIAL TO THREATEN THE SURVIVAL OF THE TREES IS PRESENT. CONTROL INVASIVE VINES MANUALLY, OR BY CAREFUL AND SELECTIVE USE OF APPROPRIATE HERBICIDE.

POST PROTECTIVE SIGNAGE THAT STATES THAT THIS AREA IS A FOREST CONSERVATION AREA AND TREES HAVE BEEN PLANTED FOR REFORESTATION. AN EFFORT SHOULD BE MADE TO INFORM AND GAIN THE COOPERATION OF THE ADJACENT RESIDENTS TO MONITOR AND PROTECT THE PLANTINGS.

FOREST PROTECTION PLAN

THE FOREST CONSERVATION AND REFORESTATION AREAS WILL NEED TO BE PROTECTED FROM INJURY DURING THE LAND CLEARING AND CONSTRUCTION PROCESS. AND FROM ANY FUTURE LAND USE CHANGES. LONG-TERM PROTECTION WILL REQUIRE PLACING THE FOREST IN A PERMANENT, RECORDED. NON-DEVELOPABLE, OPEN SPACE OR CONSERVATION EASEMENT. THE LEGAL DOCUMENT ESTABLISHING THIS PROTECTION WILL BE REQUIRED FOR FINAL FCP

**CONSTRUCTION PHASE** 

PROTECTIVE MEASURES DURING THE CONSTRUCTION STAGE WILL FOCUS ON PROTECTING THE CRITICAL ROOT ZONE OF THE RETAINED TREES ALONG THE NEW FOREST EDGE. THE FINAL LOD LINE WILL BE STAKED IN THE FIELD BY A QUALIFIED PROFESSIONAL WHO WILL DETERMINE WHICH INDIVIDUAL TREES WILL BE SAVED, AND THE EXTENT OF THE CRITICAL ROOT ZONE BASED ON TREES SPECIES AND SIZE. THE RESULTING BOUNDARY WILL BE FENCED WITH APPROVED FENCING AND POSTED AS A TREE PRESERVATION AREA, AND NO DISTURBANCE TO THE VEGETATION WITHIN THE RETENTION AREA WILL BE ALLOWED, EXCEPT THAT WHICH MAY BE NECESSARY TO MANAGE THE HEALTH OF THE TREES, SUCH AS THINNING, PRUNING, OR VINE CONTROL. ANY GRADING AND CONSTRUCTION THAT WILL OCCUR UPHILL FROM THE FOREST WILL REQUIRE SEDIMENT CONTROL MEASURES SUCH AS A SILT FENCE OR OTHER DEVICE THAT WILL PREVENT SILTATION IN THE CRITICAL ROOT ZONE OF

TWO-YEAR POST-CONSTRUCTION MANAGEMENT PROGRAM

HOWARD COUNTY REQUIRES THE DEVELOPER TO COMMIT TO A MINIMUM OF TWO YEARS OF RESPONSIBILITY FOR THE MANAGEMENT OF THE FOREST CONSERVATION AREA. THE PROGRAM MUST BE SUPERVISED BY A QUALIFIED PROFESSIONAL. THE OBLIGATIONS INCLUDE: PERIODIC (BEGINNING AND END OF GROWING SEASON) INSPECTION OF THE CONDITION OF THE FOREST; NECESSARY MANAGEMENT SUCH AS MAINTENANCE OF FENCING AND SIGNAGE, TREATMENT OR REMOVAL OF DAMAGED OR DYING TREES, OR INVASIVE PLANT CONTROL; EVALUATION OF NEW LAND OWNERS OR OCCUPANTS ABOUT ALLOWABLE ACTIVITIES AND FUTURE RESPONSIBILITIES FOR THE FOREST; AND A FINAL INSPECTION AND CERTIFICATION THAT THE FOREST IS INTACT AND THE CONDITIONS OF THE FCP HAVE BEEN MET SUBMITTED TO THE COUNTY. UPON REVIEW OF THE FINAL CERTIFICATION. THE COUNTY WILL NOTIFY THE DEVELOPER OF RELEASE FROM ALL FUTURE OBLIGATIONS, AND THEIR TRANSFERAL TO THE OWNER.

APPENDIX E

FOREST CONSERVATION WORKSHEET

I. BASIC SITE DATA

24.50 ACRES AREA WITHIN 100 YEAR FLOOD PLAIN 0.00 ACRES AREA WITHIN PRESERVATION PARCEL 0.00 ACRES (IF APPLICABLE) NET TRACT AREA ACRES LAND USE CATEGORY (R-RLD, R-RMD, R-S, C/I/O, I) II. INFORMATION FOR CALCULATIONS A NET TRACT AREA

24.50 ACRES (A) B. REFORESTATION THRESHOLD (25%.X A) 6.13 ACRES (B) C. AFFORESTATION MINIMUM (20% X A) 4.90 ACRES (C) D. EXISTING FOREST ON NET TRACT AREA 3.64 ACRES (D) E. FOREST AREAS TO BE CLEARED 0.00 ACRES (E) F. FOREST AREAS TO BE RETAINED 3.64 ACRES (F)

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 FOREST AREAS 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 AREAS ARE LESS THAN THE AFFORESTATION MINIMUM (IF D IS LESS THAN C), AFFORESTATION REQUIREMENTS APPLY.

GO TO SECTION V

IV. REFORESTATION CALCULATIONS V. AFFORESTATION CALCULATIONS

A. NET TRACT AREA 24.50 ACRES (A) B. AFFORESTATION MINIMUM (20% X A) 4.90 ACRES (C) C EXISTING FOREST ON NET TRACT AREA 3.64 ACRES (D)

0.00 ACRES (E

1.26 ACRES

SELECT THE ALTERNATIVE THAT APPLIES:

FOREST AREAS TO BE CLEARED

E. FOREST AREAS TO BE RETAINED

1. NO CLEARING BELOW THE MINIMUM

IF EXISTING FOREST ARE LESS THAN THE AFFORESTATION MINIMUM (IF D IS LESS THAN C) AND NO NO CLEARING IS PROPOSED, THE FOLLOWING CALCULATIONS APPLY:

TOTAL AFFORESTATION REQUIRED 1.26 ACRES (G)

2. CLEARING BELOW THE MINIMUM IF EXISTING FORESTS ARE LESS THAN THE AFFORESTATION MINIMUM (D IS LESS THAN C)

AFFORESTATION MUST MAKE TOTAL FOREST AREA EQUAL TO THE MINUMUM REQUIRED.

AND CLEARING IS PROPOSED, THE FOLLOWING CALCULATIONS APPLY: AFFORESTATION FOR FORESTED AREAS BELOW MINIMUM AFFORESTATION FOR CLEARING BELOW MINIMUM TOTAL AFFORESTATION REQUIRED

VII. PROPOSED QUANTITY OF AFFORESTATION AND REFORESTATION ONSITE:

VI. TOTAL AFFORESTATION AND REFORESTATION REQUIREMENT: 1.26 ACRES

AFFORESTATION REQUIREMENT WILL BE SATISFIED BY: 1. 1.26 ACRES OF ON-SITE AFFORESTATION.

TENTATIVELY APPROVED DEPT. OF PLANNING AND ZONING OF

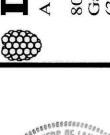


NFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS BUT THE CONTRACTOR MUST DETERMINE THE EXACT JTILITY CROSSINGS WELL IN ADVANCE OF THE START OF EXCAVATION. CONTACT MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO THE START OF EXCAVATION IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE 2) INCHES, WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY EFORE PROCEEDING WITH CONSTRUCTION.

# PRELIMINARY PLAN **OWINGS PROPERTY**

**RESUBDIVISION OF LOT 3** CONSISTING OF LOTS 6-16, PARCELS A-E HOWARD COUNTY, MARYLAND **5TH ELECTION DISTRICT** 

Section: NA	Area:	Phase: NA	Scale: 1'' = 100'	Sheet: 4 of 4
ax Map Grid & Parcel: MAP 40, PARCEL 44	OCT. 2002	Prior Submittals: SKETCH PLAN APPROVI PRELIMINARY PLAN SUI PRELIMINARY PLAN RES		File number: P-02-18





MN. MN. hecked by:

GW **RR-DEO**