

**GENERAL NOTES**

1. ZONING: THE SUBJECT PROPERTY IS ZONED "RC-DEO" PER THE OCTOBER 6, 2013 HOWARD COUNTY ZONING REGULATIONS.
2. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL SURVEY WITH TWO FOOT CONTOUR INTERVALS PREPARED BY MCKENZIE SYNDR INC. DATED APRIL 25, 2007. AIR TOPOGRAPHY HAS BEEN FIELD VERIFIED BY GLW.
3. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. HOWARD COUNTY MONUMENT NOS. 02AB AND 0201 WERE USED FOR THIS PROJECT.
4. BOUNDARY INFORMATION IS FROM A BOUNDARY SURVEY BY GUTSCHICK, LITTLE AND WEBER, P.A., DATED MAY 2007.
5. THE SCENIC ROADS MAP DOES NOT INDICATE ANY SCENIC ROADS WITHIN OR ADJACENT TO THE PROJECT LIMITS.
6. THE CEMETERY INVENTORY MAPS DO NOT SHOW ANY CEMETERIES WITHIN THE PROJECT LIMITS.
7. THIS SITE DOES HAVE A MARYLAND HISTORICAL TRUST REFERENCE, HO-480.
8. THE 100-YEAR FLOOD PLAIN LIMITS WERE DETERMINED BY THE FLOOD PLAIN STUDY PREPARED BY GUTSCHICK, LITTLE AND WEBER, P.A. AS PART OF SP-08-015.
9. THE WETLANDS DELINEATION STUDY FOR THIS PROJECT WAS PREPARED BY GEO-TECHNOLOGY ASSOCIATES, INC. DATED FEBRUARY 25, 2008, AS PART OF SP-08-015.
10. FOREST STAND DELINEATION BY GUTSCHICK, LITTLE AND WEBER, FEBRUARY, 2008, AS PART OF SP-08-015 AND UPDATED FROM FIELD VISIT BY GLW IN OCTOBER 2015.
11. THE FOREST CONSERVATION EASEMENT HAS BEEN ESTABLISHED TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND ENFORCEMENT ACT BECAUSE IT IS CREATING A FOREST CONSERVATION BANK. 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.
12. SOILS DATA WAS TAKEN FROM THE USDA NATURAL RESOURCES CONSERVATION SERVICES.
13. THERE ARE EXISTING DWELLINGS/STRUCTURES ON THIS PROPERTY TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLINGS/STRUCTURES ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS REQUIRE.
14. THIS SITE IS IN WATERSHED 0215102.
15. FOR FOREST STAND ANALYSIS TABLE SEE SP-08-015.
16. NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS.
17. DRIVEWAYS SHALL BE PROVIDED PRIOR TO ISSUANCE OF A USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS (NOT APPLICABLE) TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
  - A. WIDTH - 12' (16' SERVING MORE THAN ONE RESIDENCE)
  - B. SURFACE - 6" OF COMPACTED CRUSHER RUN BASE WITH R AND CHIP COATING (1-1/2" MIN)
  - C. GEOMETRY - MAX. 15% GRADE, MAX. 10% GRADE CHANGE AND MIN. 48" TURNING RADIUS.
  - D. STRUCTURES (CULVERTS OR BRIDGES) - CAPABLE OF SUPPORTING 25 TONS (425 LOADINGS)
  - E. DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100-YR. FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
  - F. MAINTENANCE - SUFFICIENT TO INSURE ALL WEATHER USE.
18. IN ACCORDANCE WITH SECTION 120 OF THE HOWARD COUNTY ZONING REGULATIONS, BAY WINDOWS, CHIMNEYS OR EXTERIOR STAIRWAYS NOT MORE THAN 16 FEET IN WIDTH MAY PROJECT NOT MORE THAN 4 FEET INTO ANY SETBACKS, PORCHES, OR DECKS, OPEN OR ENCLOSED MAY PROJECT NOT MORE THAN 10 FEET INTO THE FRONT OR REAR YARD SETBACKS.
19. FLAG AND PIPESTEM LOTS, REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE ARE PROVIDED TO THE JUNCTION OF THE FLAG OR PIPESTEM AND ROAD RIGHT-OF-WAY LINE AND NOT ONTO THE PIPESTEM LOT DRIVEWAY.
20. THERE IS NO LANDSCAPING REQUIRED.
21. THE 65DBA NOISE LINE ESTABLISHED BY HOWARD COUNTY TO ALERT DEVELOPERS, BUILDERS AND FUTURE RESIDENTS THAT AREAS BEYOND THIS THRESHOLD MAY EXCEED GENERALLY ACCEPTED NOISE LEVELS ESTABLISHED BY U.S. DEPT. OF HOUSING AND URBAN DEVELOPMENT. THE NOISE STUDY FOR THIS PROJECT WAS PREPARED BY MILDBERG, BOENDER & ASSOC., INC. DATED MAY 14, 2008.
22. THIS SITE IS IN AGRICULTURE USE AND THE FOREST CONSERVATION REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL WILL BE SATISFIED BY CREATION OF AN ON-SITE FOREST CONSERVATION BANK COMPRISING OF 6.51 ACRES OF CREDITED FOREST RETENTION AND 4.254 ACRES OF AFFORESTATION. TOTAL MINIMUM REQUIRED FCE IS 10.54 AC, PROVIDED FCE IS 10.164 AC.

**FOREST STAND DELINEATION NARRATIVE**

THIS SITE IS CURRENTLY IN AGRICULTURAL USE. EXCEPT FOR A FEW CLUMPS OF ISOLATED TREES, HEDGEROWS ALONG THE FENCED PERIMETER AND THE BAND OF FOREST (F) ALONG SOUTHERN BOUNDARY LINE, THE REST OF SITE IS CULTIVATED, EXCEPT FOR A PORTION ALONG A PERENNIAL STREAM & ASSOCIATED FLOODPLAIN/WETLANDS IN THE MIDDLE OF THE SITE.

THE BAND OF FOREST (F) ALONG THE SOUTHERN BOUNDARY LINE IS APPROXIMATELY 6.53 ACRES. THIS FOREST IS A YOUNG, MIXED HARDWOOD FOREST (RED MAPLE, BLACK CHERRY, WHITE OAK AND PIN OAK) IN GOOD CONDITION WITH AN AVERAGE DBH OF 8" - 10". ROYAL OAK, HILLTOP ROSE GREENBARK AND BRANBLES ARE PATCHY IN AREAS AT GROUND LEVEL WHICH IS NOT FULLY SHADED.

**SIGNIFICANT/SPECIMEN TREE LIST**

No.	Common Name	Species Name	DBH (in)	Condition
1	Cherry	Prunus spp.	31	Good - TO REMAIN
2	Pin Oak	Quercus palustris	31	Good - TO REMAIN
3	Red Oak	Quercus rubrum	34	Good - TO REMAIN
4	Pin Oak	Quercus palustris	41	STANDING DEAD
5	White Oak	Quercus alba	51	Good - TO REMAIN
6	Pin Oak	Quercus palustris	41	Good - TO REMAIN
7	White Oak	Quercus alba	36	Good - TO REMAIN
8	Silver Maple	Acer saccharum	31	Good - TO REMAIN
9	White Oak	Quercus alba	315	Good - TO REMAIN
10	Pin Oak	Quercus palustris	30	FALLEN DEAD
11	Silver Maple	Acer saccharum	24, 18, 20, 14	Good-large multi-trunks-TO REMAIN
12	Fraxinus pennsylvanica	Green Ash	31	Good - TO REMAIN
13	Linden	Tilia spp.	30	Fair-trunk and limb damage-TO REMAIN
14	Red Maple	Acer rubrum	32	Fair-trunk and limb damage-TO REMAIN
15	Black Locust	Robinia pseudoacacia	31	Poor - branch damage - TO REMAIN

**FOREST RETENTION BANK SALES CHART (6.51 TOTAL)**

SALE	CREDITED OBLIGATION	PROJECT NAME	HOWARD COUNTY FILE NO.	REMAINING ACREAGE
1	2.28 AC	TROTTERS KNOLL SECTION 1	F-17-027	4.23
2	0.458 AC	LUDWIG PROPERTY LOT 2	F-17-049	3.772
3	0.78 AC	SHARPE RD. EGP-8522, BLUMEN LAKE (PARCEL 55)	N/A	2.992
4	0.048 AC	LINDENBROOK LOT 3	F-18-027	2.944
5	2.044 AC	TERRAPIN COMMERCE CENTER	SDP17-090	0

**AFFORESTATION BANK SALES CHART (4.254 TOTAL)**

SALE	CREDITED OBLIGATION	PROJECT NAME	HOWARD COUNTY FILE NO.	REMAINING ACREAGE
1	0.758	TERRAPIN COMMERCE CENTER	SDP17-090	3.501
2	3.501	TERRAPIN COMMERCE CENTER-BLUG B	SDP17-091	0

**APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING**

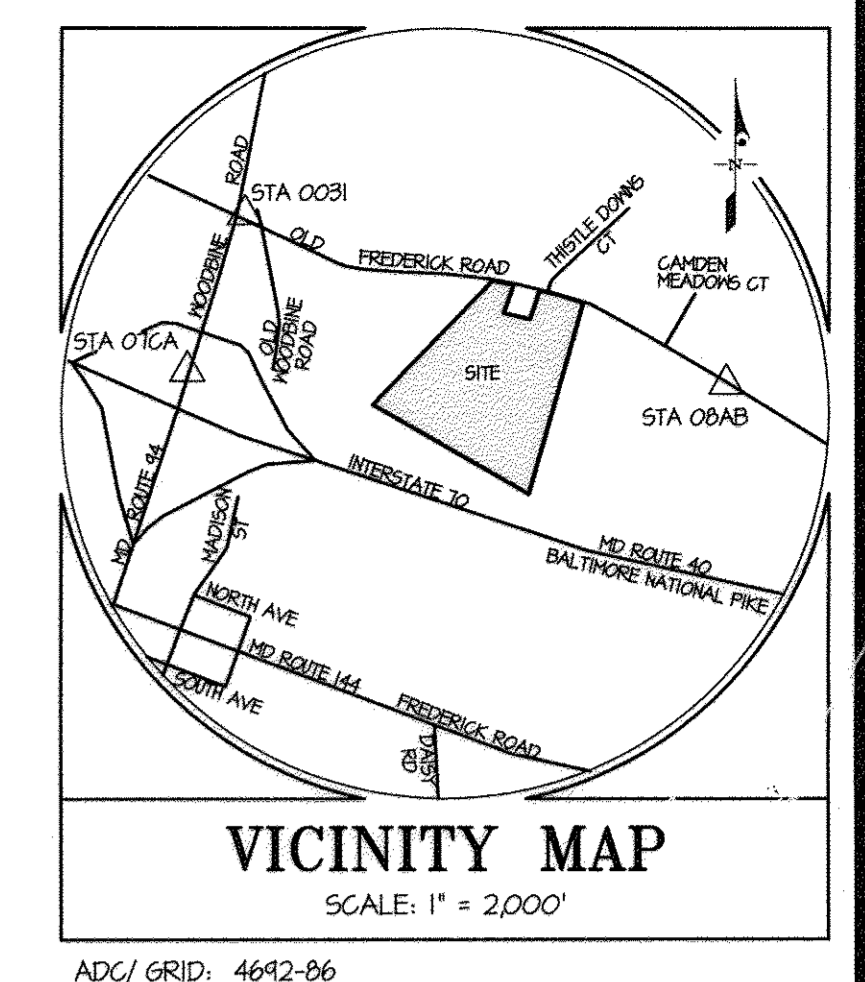
Director: *Valerie J. Jaffe* 3-3-16  
 Chief, Division of Land Development: *Walter A. DeLoe* 3-3-16  
 Chief, Development Engineering Division: *Chad E. Clark* 3-24-16

**GLWGUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONVILLE OFFICE PARK  
 BURTONVILLE, MARYLAND 20866  
 TEL: 301-421-4024 FAX: 301-421-4186

PREPARED FOR:  
 AFS FARM, LLC  
 4003 JENINGS CHAPEL  
 BROOKVILLE, MD 20833  
 CHARLES SHARP  
 301-938-2142

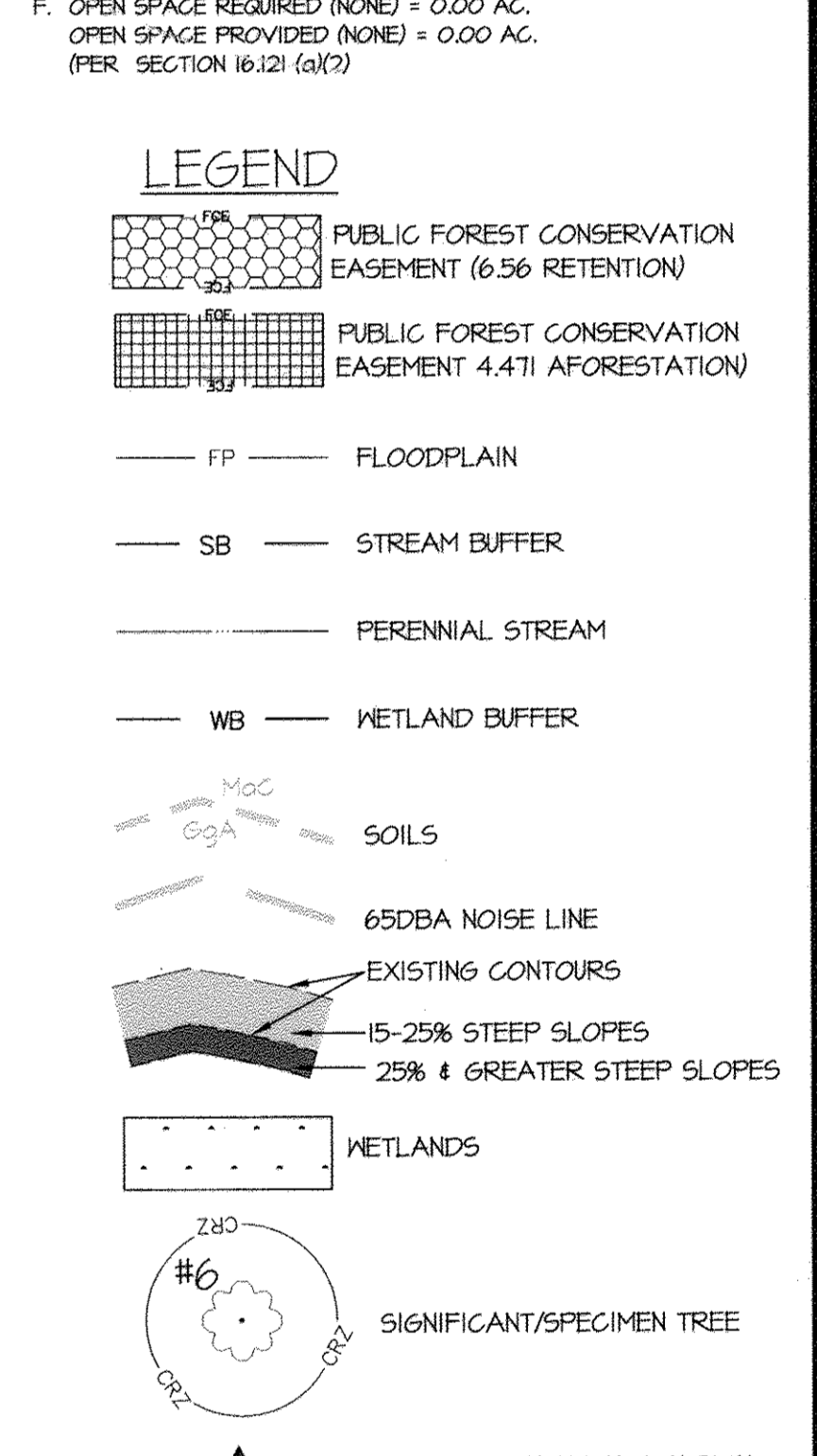
**REVISIONS**

NO.	DATE	DESCRIPTION	BY	APP'R.
2017-07-27		REV FOREST RETENTION BANK FOR SALES 4 & 5, REV AFFORESTATION BANK FOR SALES 1 & 2	HJK	CKG
2017-08-12		REV FOREST RETENTION BANK SALES CHART FOR SALE 3 AND REVISE REMAINING ACREAGE ON SALE 2	HJK	MBT
11-23-2016		REVISE FOREST RETENTION BANK SALES CHART FOR SALES 1 AND 2	HJK	MBT



**SITE DATA TABLE**

- A. GROSS AREA OF PROPERTY TRACT = 50.71± AC.
- B. 100-YEAR FLOOD PLAIN AREA = 3.71± AC.
- C. AREA OF EXISTING EASEMENT (COLONIAL PIPELINE)=3.36
- D. NET AREA OF PROPERTY TRACT = 51.7± AC.
- E. AREA OF PROPOSED PUBLIC ROAD ROW (ON SITE) = 0.00± AC. OLD FREDERICK ROAD ROW DEDICATION = 0.00± AC. TOTAL AREA OF PUBLIC ROW DEDICATION = 0.00± AC.
- F. OPEN SPACE REQUIRED (NONE) = 0.00 AC. OPEN SPACE PROVIDED (NONE) = 0.00 AC. (PER SECTION 16.121 (a)(2))



**SOILS LEGEND**

SOIL	NAME	CLASS
Brd	Brinklow channery loam, 15 to 25 percent slopes	B
GgA	Glennelq loam, 0 to 3 percent slopes	B
GgB	Glennelq loam, 3 to 8 percent slopes	B
GgC	Glennelq loam, 8 to 15 percent slopes	B
GmB	Glennville silt loam, 3 to 8 percent slopes	C
MaC	Manor loam, 8 to 15 percent slopes	B
M	Water	-

**ADDRESS CHART**

15685 OLD FREDERICK ROAD WOODBINE, MD 21717

**PERMIT INFORMATION CHART**

WATER CODE	SEWER CODE
N/A	N/A

DEVELOPMENT NAME	DISTRICT/AREA	LOTS	CENSUS TRACT
AFS FARM	N/A	N/A	6040.01

PLAT	ZONE	TAX MAP	GRID	ELEC. DIST.
23626-P.N. 23628	RC-DEO	8	1	4

SCALE	ZONING	G. L. W. FILE NO.
1"=100'	RC-DEO	15077

DATE	TAX MAP - GRID	SHEET
NOV. 2015	8-1	1 OF 2

**FOREST CONSERVATION WORKSHEET**

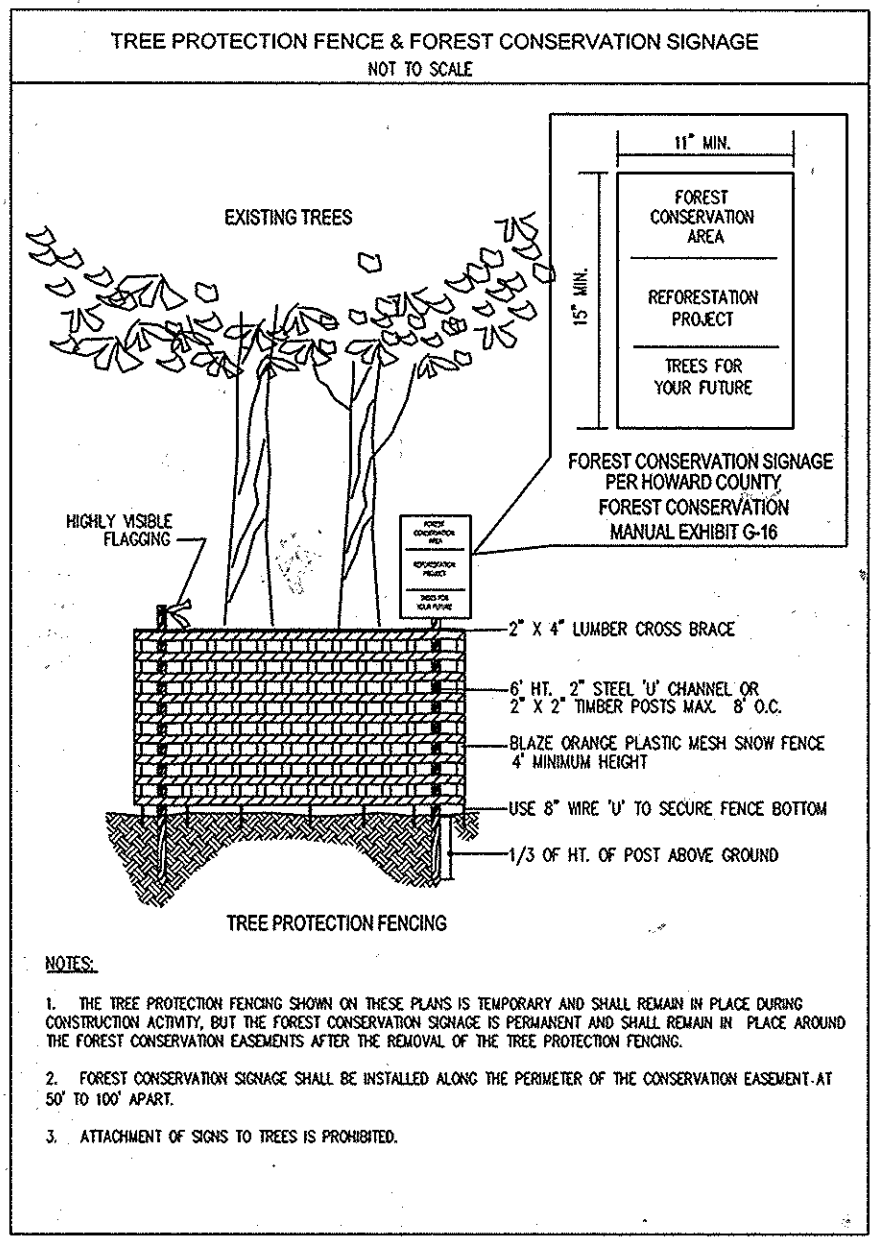
Project Name: AFS FARM DPZ File No.: SDP-16-029

<b>1 Site Data</b>		Acreage	58.770
A.	Gross Site Area		58.770
B.	Area within 100-yr floodplain, if any		3.710
C.	Area of existing easement for major utility transmission lines, if any		3.360
D.	Net Tract Area		51.700
E.	Land Use Category		Residential - Rural Medium Density
<b>2 Input Data</b>			
A.	Net Tract Area		51.700
B.	Reforestation Threshold (percent of net tract = 25%)		12.925
C.	Afforestation Threshold (percent of net tract = 20%)		10.340
D.	Existing Forest on Net Tract Area		6.750 *
E.	Forest Clearing on Net Tract Area		0.000 *
F.	Forest Retention on Net Tract Area		6.750 *
<b>3 Reforestation and/or Afforestation Calculations</b>			
A.	Net tract forest clearing above reforestation threshold, if applicable		0.000
B.	Net tract forest clearing below reforestation threshold, if applicable		0.000
C.	Planting up to afforestation threshold, if applicable		3.590
D.	Reforestation planting required for clearing above threshold (3A x 0.25)		0.000
E.	Reforestation planting required for clearing below threshold (3B x 2.0)		0.000
F.	Net tract forest retention above reforestation threshold (2F-2B, available credit)		0.000
G.	Total reforestation planting required (3C+3D+3E - 3F)		3.590
<b>4 Break Even Point (BEP) Calculations</b>			
A.	Maximum clearing allowed with no reforestation planting (2D-2B)/1.25		Not Applicable
B.	Minimum net tract retention at BEP 0.2(2D-2B)+2B or 2D-4A		Not Applicable
<b>5 Forest Conservation Required</b>			
A.	Forest Retention Area (2F)		6.750 *
B.	Forest Planting Area (3G)		3.590
C.	Total minimum FCE required for retention and reforestation		10.340

\* NOT ALL THE EXISTING FOREST TO BE RETAINED IS INCLUDED IN THE FOREST CONSERVATION EASEMENT (0.24 AC.).

**Forest Conservation Surety Calculations**

Type of Forest Conservation	Quantity		Unit price per square foot	Surety Amount
	Acres	Square Feet		
Forest Retention	6.510	283,576	\$0.00	\$0.00
Reforestation/Afforestation	4.259	185,522	\$0.50	\$92,761.00
<b>Total Forest Conservation Surety required:</b>				<b>\$92,761.00</b>



**FOREST CONSERVATION PLANTING QUANTITY SCHEDULE**

FOREST PLANTING LOCATION NO.	FCE-1	FCE-2	FCE-3	FCE-4	TOTAL
AREA TO BE PLANTED (IN AC.)	0.526	0.00	0.459	3.274	4.259
BASE QUANTITY OF 2" CAL. TREES REQUIRED (AT 100 TREES/AC.)	53	0.00	46	328	427
REQUIRED QUANTITY OF 2"-2 1/2" CAL. TREES TO BE PLANTED	53	0.00	46	328	427
OR REQUIRED QUANTITY OF 1" CAL. TREES TO BE PLANTED (at 200 per acre)	106	0.00	92	655	853
OR 3" WHIPS WITH TREE SHELTERS (at 350 per acre)	184	0.00	161	1146	1491

**FOREST CONSERVATION PLANT LIST**

PLANT NAME (BOTANICAL/COMMON)	PLANT NAME (BOTANICAL/COMMON)				TOTAL
	FCE-1	FCE-2	FCE-3	FCE-4	
* ACER RUBRUM / RED MAPLE	6	0	12	50	68
CERCIS CANADENSIS / EASTERN REDBUD	11	0	11	26	48
LIRIODENDRON TULIPIFERA / TULIP TREE	11	0	0	26	37
* PLATANUS OCCIDENTALIS / AMERICAN SYCAMORE (PLANE TREE)	0	0	11	49	60
QUERCUS PALUSTRIS / PIN OAK	5	0	0	26	31
QUERCUS RUBRUM / RED OAK	10	0	0	26	36
* QUERCUS PHellos / YELLOW OAK	0	0	0	49	49
* BETULA NIGRA / RIVER BIRCH	5	0	12	50	67
ROBINIA PSEUDOACACIA / BLACK LOCUST	5	0	0	26	31
TOTAL	53	0	46	328	427

**NOTES:**

- THE QUANTITY SHOWN ABOVE IS FOR PLANTING WITH 2" CAL. TREES AT APPROXIMATELY 20'x20' SPACING.
  - DOUBLE THE QUANTITY SHOWN FOR 1" CAL. TREES (APPROXIMATE SPACING 15'x15').
  - WHIPS WITH TREE SHELTERS MAY BE USED INSTEAD AT 350 PER ACRES (APPROX. SPACING 11' x 11').
- SUBSTITUTIONS AMONG THE ABOVE PLANTS ARE ALLOWED IF A PARTICULAR PLANT IS NOT AVAILABLE LOCALLY (IN THE MID-ATLANTIC AREA).
- PLANT THE TREES SHOWN WITH AN ASTERISK (\*) IN THE FLOODPLAIN PORTION OF FCE (THEY MAY ALSO BE PLANTED OUTSIDE THE FLOODPLAIN). DO NOT PLANT THE TREES SHOWN WITHOUT AN ASTERISK (\*) IN THE FLOODPLAIN.

**FOREST CONSERVATION GENERAL NOTES**

- THIS REFORESTATION PLAN IS PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF SUBTITLE 12 "FOREST CONSERVATION" OF THE HOWARD COUNTY CODE.
- IMPLEMENTATION OF THIS PLAN MUST BE PERFORMED BY A CONTRACTOR THAT IS KNOWLEDGEABLE AND EXPERIENCED IN AFFORESTATION/REFORESTATION TECHNIQUES AND PRACTICES.
- THE OWNER IS RESPONSIBLE FOR A 2-YEAR (MIN.) "POST-CONSTRUCTION" MAINTENANCE PERIOD WHICH INCLUDES ACTIVITIES NECESSARY TO ENSURE SURVIVAL AND GROWTH OF THE CONSERVATION AREA. TWO INSPECTIONS PER YEAR BY A QUALIFIED PROFESSIONAL AT BEGINNING AND END OF THE GROWING SEASON, ARE RECOMMENDED IN ORDER TO TAKE REMEDIAL STEPS AS NECESSARY. IF, AFTER ONE YEAR, THE POSSIBILITY EXISTS THAT THE ORIGINAL PLANTING (IF APPLICABLE) WILL NOT MEET SURVIVAL RATE STANDARDS, THE APPLICANT MAY CHOOSE TO ESTABLISH REINFORCEMENT PLANTINGS.
- AT THE END OF THE "POST-CONSTRUCTION" MANAGEMENT AND PROTECTION PERIOD, CERTIFICATION BY A QUALIFIED CONSULTANT WILL BE REQUIRED BEFORE THE OWNER CAN BE RELEASED FROM HIS/HER FOREST CONSERVATION OBLIGATION TO THE ADMINISTRATOR OF THE HOWARD COUNTY FOREST CONSERVATION PROGRAM.
- THE DEVELOPER SHALL (IN WRITING) NOTIFY ALL LOT OWNERS ADJACENT TO THIS FOREST CONSERVATION EASEMENT OF THE EXISTENCE OF FOREST CONSERVATION AREAS AND THAT DISTURBANCE TO THE FOREST CONSERVATION AREAS OR THE REMOVAL OF FOREST CONSERVATION SIGNAGE IS PROHIBITED.
- REFORESTATION/AFFORESTATION TREE PLANTINGS SHOULD BE INSTALLED IN A CURVILINEAR PATTERN TO FACILITATE MAINTENANCE BUT AVOID A GRID APPEARANCE. EACH SPECIES OF TREE SHALL BE DISTRIBUTED EVENLY WITHIN EACH FOREST CONSERVATION EASEMENT AREA.
- THE FOREST CONSERVATION EASEMENT SHALL BE ESTABLISHED AT FINAL PLAN STATE TO FULFILL THE REQUIREMENTS OF SECTION 16.1200 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN THE FOREST CONSERVATION EASEMENT. HOWEVER, FOREST MANAGEMENT PRACTICES AS DEFINED IN THE DECISION OF FOREST CONSERVATION EASEMENT ARE ALLOWED.

**CONSTRUCTION PERIOD PROTECTION PROGRAM**

- THE LIMIT OF FOREST RETENTION SHALL BE STAKED AND FLAGGED.
- FOREST PROTECTION DEVICES AND SIGNS (SEE DETAILS) SHALL BE INSTALLED. THE PROTECTION DEVICES AND SIGNS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OR ATTACHED IN ANY WAY TO THE TREES TO BE SAVED.
- EQUIPMENT, VEHICLES AND BUILDING MATERIALS SHALL NOT BE WITHIN THE PROTECTED AREA. ACTIVITIES STRICTLY TO IMPLEMENT ANY REFORESTATION PLANTING AND MAINTENANCE (I.E. WATERING, FERTILIZING, THINNING, PRUNING, REMOVAL OF DEAD AND DISEASED TREES WHERE NECESSARY, ETC.) OF THE CONSERVATION AREA ARE PERMITTED. CLEARING FOR THE PURPOSE OF SPOONING OR PLANTING GRASS IS NOT PERMITTED WITHIN THE FOREST CONSERVATION AREAS ONCE THEY'RE ESTABLISHED.
- THE DESIGNATED QUALIFIED PROFESSIONAL SHALL CONVEY TO THE ADMINISTRATOR OF THE HOWARD COUNTY FOREST CONSERVATION PROGRAM CERTIFICATION THAT ALL FOREST RETENTION AREAS HAVE BEEN PRESERVED, ALL REFORESTATION AND/OR AFFORESTATION PLANTINGS (IF APPLICABLE) HAVE BEEN INSTALLED AS REQUIRED BY THE FOREST CONSERVATION PLAN, AND THAT ALL PROTECTION MEASURES HAVE BEEN INSTALLED.

**FOREST CONSERVATION PROGRAM SEQUENCE**

- OBTAIN ALL NECESSARY PERMITS.
- STAKEOUT LIMITS OF FOREST CONSERVATION EASEMENT.
- FIELD MEETING TO REVIEW AND VERIFY LIMIT OF FOREST CONSERVATION EASEMENT.
- INSTALL FOREST CONSERVATION SIGNS AND FOREST PROTECTION DEVICES (FENCES) ALONG THE PORTION OF THE LIMIT OF FOREST CONSERVATION EASEMENT.
- PREPARE SITE SOIL BY MULCHING AND REMOVAL OF TRASH AND WEEDS INCLUDING AN APPLICATION OF HERBICIDES TO CONTROL WOODED WEEDS AND INVASIVE SPECIES.
- PLANT TREES.
- INSPECTION AND CERTIFICATION TO START OF POST-CONSTRUCTION MANAGEMENT PERIOD.
- POST-CONSTRUCTION MANAGEMENT FOR A PERIOD OF 2 YEARS (MIN.).
- FINAL INSPECTION FOR THE RELEASE OF THE OWNER'S FOREST CONSERVATION SURETY.

**TREE PLANTING AND MAINTENANCE CALENDAR**

TASKS	MONTHS											
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
TRANSPLANT OF 2" DBH OR GREATER	[Bar chart showing planting periods from March to October]											
PLANTING SEEDLINGS, WHIPS	[Bar chart showing planting periods from March to October]											
MINIMUM MAINTENANCE	*											*
FERTILIZED + (IF NEEDED)												
WATER **												
PRUNING												

**KEY:**

- \* ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS
- [Solid black bar] GREATLY RECOMMENDED
- [Hatched bar] RECOMMENDED WITH ADDITIONAL CARE
- [Dotted bar] RECOMMENDED
- [Bar with +] DEPENDENT UPON SITE CONDITIONS
- [Bar with \*\*] DEPENDENT UPON SITE CONDITIONS, WEEKLY WATERING IS GREATLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

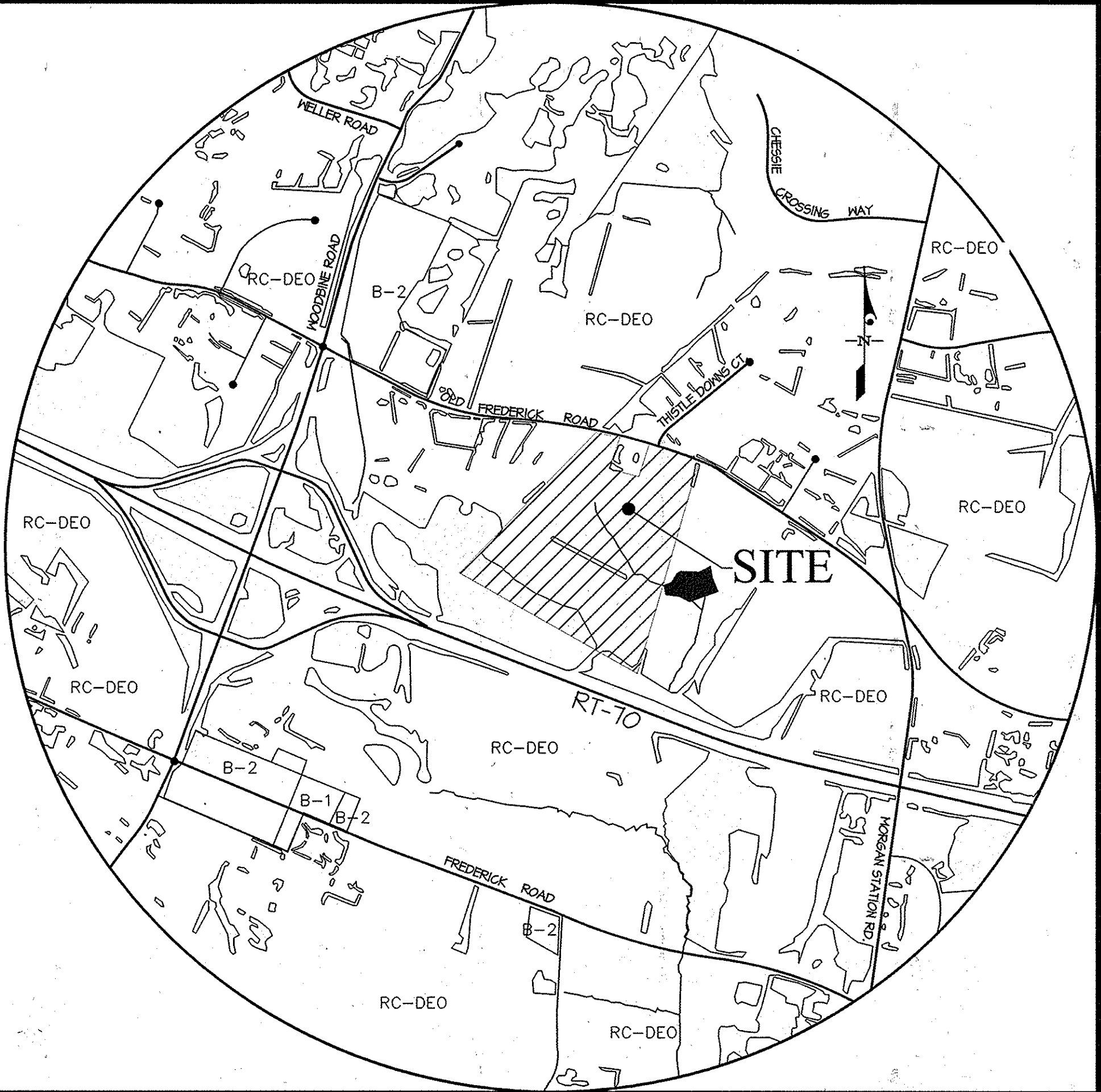
**NOTE:** THE PLANTING AND CARE OF TREES IS MOST SUCCESSFUL WHEN COORDINATED WITH THE LOCAL CLIMATIC CONDITIONS. THIS CALENDAR SUMMARIZES SOME OF THE RECOMMENDED TIME FRAMES FOR BASIC REFORESTATION AND STRESS REDUCTION ACTIVITIES.

**SOURCE:** ADAPTED FROM THE MARYLAND STATE FOREST CONSERVATION MANUAL

**SPECIFICATIONS: PLANT MATERIALS AND PLANTING METHODS**

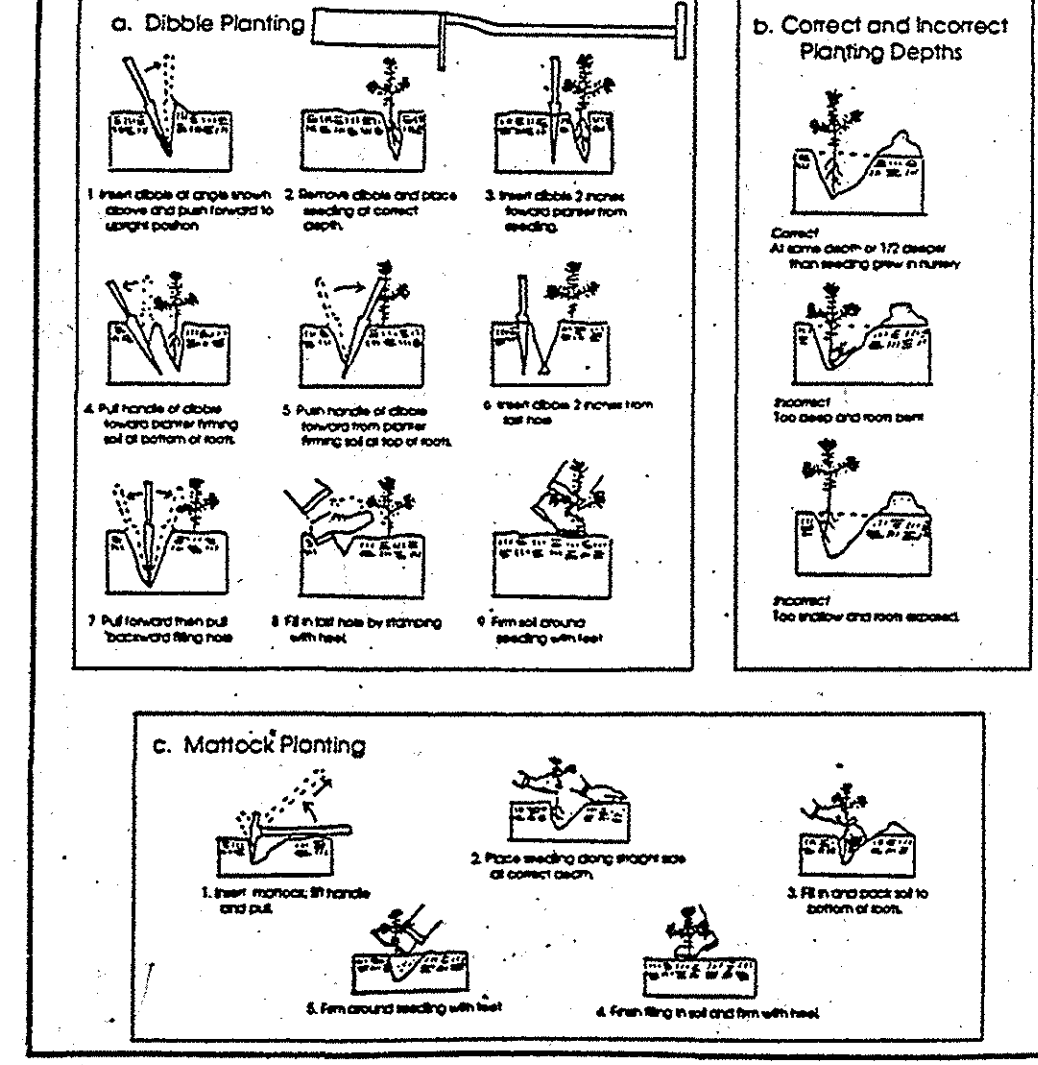
- PLANT MATERIALS:** THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP AND TRANSPLANT ALL OF THE PLANT MATERIALS CALLED FOR ON DRAWINGS AND/OR LISTED IN THE PLANT SCHEDULE.
  - PLANT NAMES:** PLANT NAMES USED IN THE PLANT SCHEDULE SHALL CONFORM TO "AAN" STANDARDS.
  - PLANT STANDARDS:** ALL PLANT MATERIAL SHALL BE EQUAL TO OR BETTER THAN THE REQUIREMENTS OF THE "USA STANDARD FOR NURSERY STOCK" LATEST EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN (HERE-AFTER REFERRED TO AS AAN STANDARDS). ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE FIRST QUALITY, SOUND, VIGOROUS, WELL-BRANCHED AND WITH HEALTHY, WELL-FURNISHED ROOT SYSTEMS. THEY SHALL BE FREE OF DISEASE, INSECT PESTS AND MECHANICAL INJURIES.
 

ALL PLANTS SHALL BE NURSERY GROWN AND SHALL HAVE BEEN GROWN UNDER THE SAME CLIMATE CONDITIONS AS THE LOCATION OF THIS PROJECT FOR AT LEAST TWO YEARS BEFORE PLANTING. NEITHER HEEL-INS PLANTS NOR PLANTS FROM COLD STORAGE WILL BE ACCEPTED.
  - PLANT MEASUREMENTS:** ALL PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE.
    - CALIPER MEASUREMENTS SHALL BE TAKEN SIX INCHES (6") ABOVE GRADE FOR TREES UP TO FOUR-INCH (4") CALIPER AND TWELVE (12") ABOVE GRADE FOR TREES GREATER THAN FOUR INCHES (4") IN CALIPER.
    - MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX FEET (6"), MAXIMUM EIGHT FEET (8").
    - CALIPER, HEIGHT, SPREAD AND SIZE OF BALL SHALL BE IN ACCORDANCE WITH ANS Z60.1 (AMERICAN STANDARD FOR NURSERY STOCK).
  - PLANT IDENTIFICATION:** LEGIBLE LABELS SHALL BE ATTACHED TO ALL SHADE TREES, MINOR TREES, SPECIMEN SHRUBS AND BUNDLES OR BOXES OF OTHER PLANT MATERIAL OWING THE BOTANICAL AND COMMON NAMES, SIZE AND QUANTITY OF EACH. EACH SHIPMENT OF PLANTS SHALL BEAR CERTIFICATES OF INSPECTION AS REQUIRED BY FEDERAL, STATE AND COUNTY AUTHORITIES.
  - PLANT INSPECTION:** THE OWNER MAY REQUEST, AT LEAST TEN (10) DAYS PRIOR TO THE INSTALLATION OF ANY PROPOSED PLANT MATERIAL, TO INSPECT ALL PROPOSED PLANT MATERIAL AT THE SOURCE OF ORIGIN.
    - PLANTING METHODS:** ALL PROPOSED PLANT MATERIALS THAT MEET THE SPECIFICATIONS IN SECTION A ARE TO BE PLANTED IN ACCORDANCE WITH THE FOLLOWING METHODS DURING THE PROPER PLANTING SEASONS AS DESCRIBED IN THE FOLLOWING:
      - PLANTING SEASONS:** THE PLANTING OF DECIDUOUS TREES, SHRUBS AND VINES SHALL BE FROM MARCH 1ST TO JUNE 15TH AND FROM SEPTEMBER 15TH TO DECEMBER 15TH. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING THE WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED. THE PLANTING OF EVERGREEN MATERIAL SHALL BE FROM MARCH 15TH TO JUNE 15TH AND FROM AUGUST 15TH TO DECEMBER 1ST. NO PLANTING SHALL BE DONE WHEN THE GROUND IS FROZEN OR EXCESSIVELY MOIST. NO FROZEN OR WET TOPSOIL SHALL BE USED AT ANY TIME.
      - DISPOSING:** ALL PLANT MATERIAL SHALL BE DUG, BALLED AND BURLAPPED (8/8) IN ACCORDANCE WITH THE "AAN STANDARDS".
      - EXCAVATION OF PLANT PITS:** THE LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES AND SHRUB BEDS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
        - LOCATIONS OF ALL PROPOSED PLANT MATERIAL SHALL BE STAKED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT BEFORE ANY OF THE PROPOSED PLANT MATERIAL IS INSTALLED BY THE LANDSCAPE CONTRACTOR.
        - ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, VERTICAL SIDES; DEPTH SHALL NOT BE LESS THAN 8" DEEPER THAN THE ROOT BALL. DIAMETER SHALL NOT BE LESS THAN TWO TIMES THE DIAMETER OF THE ROOT BALL AS SET FORTH IN THE FOLLOWING SCHEDULE.
        - IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE EXCAVATED TO AT LEAST 18" DEPTH MINIMUM. AREAS DESIGNATED FOR GROUND COVERS AND VINES SHALL BE EXCAVATED TO AT LEAST 12" IN DEPTH MINIMUM.
      - STAKING, CUTTING AND WRAPPING:** ALL PLANT MATERIAL SHALL BE STAKED OR GUYED, AND WRAPPED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
        - STAKES: SHALL BE SOUND WOOD 2" X 2" ROUGH SAWN OAK OR SIMILAR DURABLE WOODS, OR LENGTHS, MINIMUM 7'-0" FOR MAJOR TREES AND 5'-0" MINIMUM FOR MINOR TREES.
        - WIRE AND CABLE: WIRE SHALL BE #10 GA. GALVANIZED OR BETHANIZED ANNEALED STEEL WIRE. FOR TREES OVER 3" CALIPER, PROVIDE 5/16" TURN BUCKLES, EYE AND EYE WITH 4" TAKE-UP. FOR TREES OVER 5" CALIPER, PROVIDE 3/16", 7 STRAND CABLE CADMIUM PLATED STEEL WITH GALVANIZED "EYE" TRIMBLES OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.
        - HOSE: SHALL BE NEW, 2 PLY REINFORCED RUBBER HOSE, MINIMUM 1/2" I.D., "PLASTIC LOCK TEST" OR "PAUL'S TREES BRACES" MAY BE USED IN PLACE OF WIRE AND HOSE ON TREES UP TO 3" IN CALIPER.
        - ALL TREES UNDER 3" IN CALIPER ARE TO BE PLANTED AND STAKED IN ACCORDANCE WITH THE ATTACHED PLANTING DETAILS.
      - PLANT PRUNING, EDGING AND MULCHING:**
        - EACH TREE, SHRUB OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER TO ITS PARTICULAR REQUIREMENTS, IN ACCORDANCE WITH ACCEPTED STANDARD PRACTICE. BROKEN OR BRUISED BRANCHES SHALL BE REMOVED WITH CLEAN CUTS FLUSH WITH THE ADJACENT TRUNK OR BRANCHES. ALL CUTS OVER 1" IN DIAMETER SHALL BE PAINTED WITH AN APPROVED ANTISEPTIC TREE WOUND DRESSING.
        - ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL DIAMETER OF THE PIT, 800 WHICH SHALL NOT BE LESS THAN TWO TIMES THE DIAMETER OF THE ROOT BALL AS SET FORTH IN THE FOLLOWING SCHEDULE. MULCH SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGES OF SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS.
        - AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A 3" LAYER OF FINE, SHREDDED PINE BARK, PEAT MOSS, OR ANOTHER APPROVED MATERIAL OVER THE ENTIRE AREA OF THE BED OR SAUCER.
    - PLANT INSPECTION AND ACCEPTANCE:** THE DESIGN REVIEW COMMITTEE SHALL BE RESPONSIBLE FOR INSPECTING ALL PLANTING PROJECTS ON A PERIODIC BASIS TO ASSURE THAT ALL WORK IS PROCEEDING IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
    - PLANT GUARANTEE:** ALL PLANT MATERIAL SHALL BE GUARANTEED FOR THE DURATION OF ONE FULL GROWING SEASON. AFTER FINAL INSPECTION AND ACCEPTANCE OF THE WORK IN THE PLANTING PROJECT, PLANTS SHALL BE ALIVE AND IN SATISFACTORY GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD.
      - FOR THIS PURPOSE, THE "GROWING SEASON" SHALL BE THAT PERIOD BETWEEN THE END OF THE "SPRING" PLANTING SEASON, AND THE COMMENCEMENT OF THE "FALL" PLANTING SEASON.
      - GUARANTEE FOR PLANTING PERFORMED AFTER THE SPECIFIED END OF THE "SPRING" PLANTING SEASON, SHALL BE EXTENDED THROUGH THE END OF THE NEXT FOLLOWING "SPRING" PLANTING SEASON.



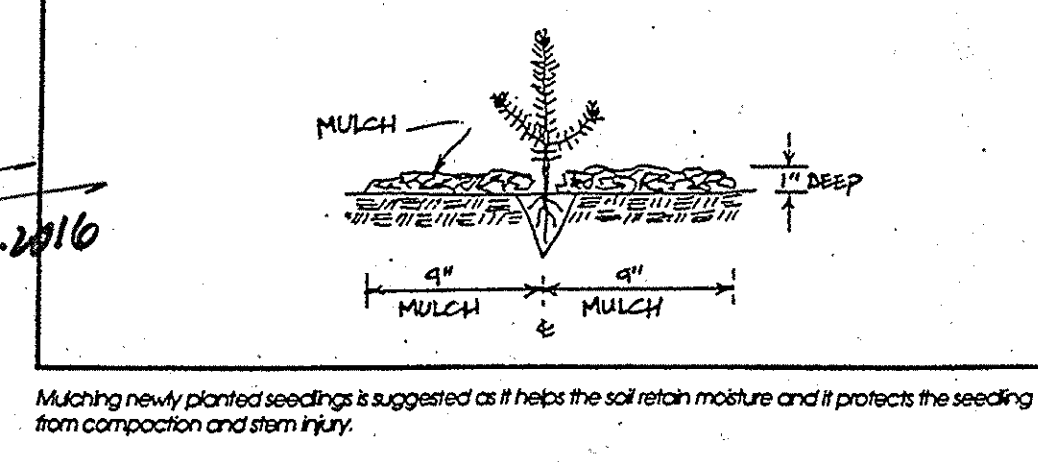
**FOREST VICINITY MAP**  
SCALE: 1"=1000'

**Seeding Planting Methods**



Seedlings and whips need special care when planted. Figure 3.6.5 details the recommended manual planting procedures which include correct planting depths (b) as well as methods for two different planting tools: the dibble (a) and the mattock (c).

**Seeding and Whip Planting Specification**



Mulching newly planted seedlings is suggested as it helps the soil retain moisture and it protects the seedling from compaction and stem injury.

**Handling Seedlings in the Field**

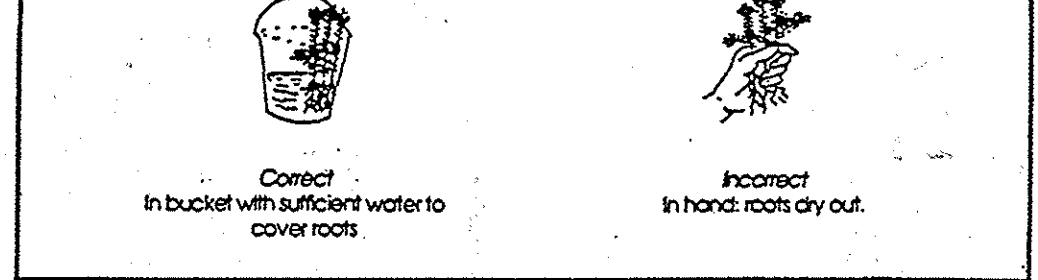


Figure 3.3.6 notes the correct method for handling seedlings in the planting field. Seedlings dry out very quickly and, once dry, often are not useable even after moistening.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

*Natalia Joffe* 3-3-16  
Director Date

*W. J. Schell* 3-3-16  
Chief, Division of Land Development Date

*W. J. Schell* 2-24-16  
Chief, Development Engineering Division Date

**GLWGUTSCHICK LITTLE & WEBER, P.A.**  
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20886  
TEL: 301-421-4024 BALT: 410-880-1824 DC/VA: 301-989-2524 FAX: 301-421-4186

DES. HKJ DRN. HKJ CHK. MBT

PREPARED FOR:  
AFS FARM, LLC  
4003 JENINGS CHAPEL  
BROOKVILLE, MD 20833  
CHARLES SHARP  
301-938-2142

**SITE DEVELOPMENT PLAN AND FOREST CONSERVATION BANK DETAILS**

**AFS FARM**

PARCEL 2 L4006 F. 297

ELECTION DISTRICT No. 4

HOWARD COUNTY, MARYLAND

SCALE	ZONING	G. L. W. FILE No.
1"=100'	RC-DEO	15077
DATE	TAX MAP - GRID	SHEET
NOV. 2015	8-1	2 OF 2