

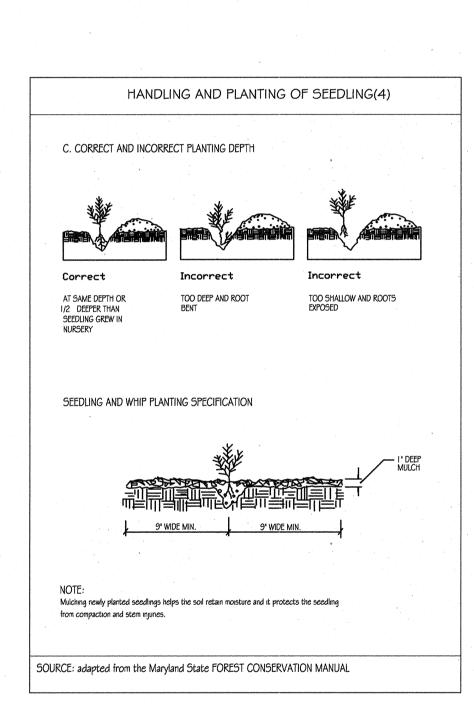
FOREST CONSERVATION WORKSHEET SITE DATA GROSS SITE AREA 71.11 AREA WITHIN 100-YEAR FLOOD PLAIN 8.03 NET TRACT AREA 63.08 LAND USE CATEGORY RR-DEO 12.62 AFFORESTATION THRESHOLD (20% x A) CONSERVATION THRESHOLD (25% x A) EXISTING FOREST COVER EXISTING FOREST ON NET TRACT AREA AREA OF FOREST ABOVE AFFORESTATION THRESHOLD (On Net Tract Area) 3.04 AREA OF FOREST ABOVE CONSERVATION THRESHOLD (On Net Tract Area) 0.00 PROPOSED FOREST CLEARING. FOREST AREAS TO BE CLEARED (On Net Tract Area) -0.13 0.21 FOREST AREAS TO BE RETAINED (On Net Tract Area) 15.53 15.45 PLANTING REQUIREMENTS 0.26 0.42 TOTAL REFORESTATION REQUIRED TOTAL AFFORESTATION REQUIRED TOTAL AFFORESTATION AND REFORESTATION REQUIRED 0.26 042 PLANTING TO BE PROVIDED 0.26 0.59 * THE FOREST OUTSIDE THE INITIAL CONSTRUCTION FOR THE SCHOOL SEPTIC SYSTEM IS NOT BEING CLEARED. SINCE THIS AREA IS HELD IN RESERVE FOR THE FUTURE SEPTIC FIELD. IT QUALIFIES FOR THE DPZ 1/3 - 2/3 POLILCY REGARDING FCES AND SEPTIC AREAS.

NOT TO SCALE

CONSERVATION AREA

DO NOT DISTURE

OR TREES



DEPENDANT UPON SITE CONDITIONS; WEEKLY WATERING IS GREATLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS I*

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

TASKS

OF 2" DBH OR GREATER

PLANTING SEEDINGS, WHIPS

FERTILIZER + (IF NEEDED)

WATER ++

PRUNING

GREATLY RECOMMENDED

RECOMMENDED

RECOMMENDED WITH ADDITIONAL CARE

____BLAZE ORANGE PLASTIC MESH SNOW FENC ____USE 8" WIRE 'U' TO SECURE FENCE BOTTOM ---1/3 OF HT. OF POST ABOVE GROUND 1. Forest protection device only. 2. Avoid root damage 3. Device must be maintained throughout construction adapted from the Maryland State FOREST CONSERVATION MANUAL

TREE PROTECTION FENCE

- 1. THE TREE PROTECTION FENCING SHOWN ON THESE PLANS IS TEMPORARY AND SHALL REMAIN IN PLACE DURING CONSTRUCTION ACTIVITY, BUT THE FOREST CONSERVATION SIGNAGE IS PERMANENT AND SHALL REMAIN IN PLACE AROUND THE FOREST CONSERVATION EASEMENTS AFTER THE REMOVAL OF THE TREE PROTECTION FENCING.
- 2. FOREST CONSERVATION SIGNAGE SHALL BE INSTALLED ALONG THE PERIMETER OF THE CONSERVATION EASEMENT AT 50' TO 100' APART AND AT ALL CORNERS WHERE THE EASEMENT CHANGES DIRECTION.
- 3. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING + ZONING

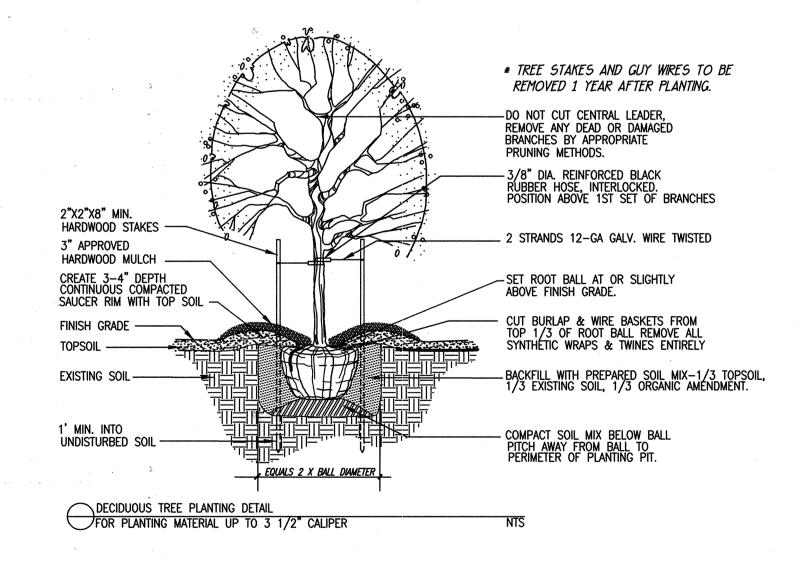
- 1. THE QUANTITY SHOWN ABOVE IS FOR PLANTING WITH SEEDLING TREES AT 8' X 8' SPACING.
- 2. ALL 1" AND 2" CAL. TREES SHALL BE B&B OR CONTAINER GROWN.
- ALL SEEDLINGS SHALL BE 1-YEAR OR OLDER, 1/4" TO 1/2" CAL. AND WITH ROOTS NO LESS THAN 8" LONG OR IN CONTAINERS.
- 4. TREE SPECIES SHALL BE PLANTED IN RANDOM ARRANGEMENT, IMITATING THE NATURAL PATTERN OF THE FOREST. THE TREES SHALL BE PLANTED IN A RANDOM PATTERN AS WELL, APPROXIMATELY 20' ON CENTER.

	TABULATION OF PROPOSED FOREST CONSERVATION AREAS				
TREE PLANTING AND MAINTENANCE CALENDAR					
		FOREST CONSERVATION ESMT	1	2	TOTAL
ASKS MONTHS					
JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC	CREDITED	FOREST PLANTING PROVIDED IN THE 100-YR FLOOD PLAIN	0.20 Ac	0.00 Ac	0.20 Ac
ANSPLANT F 2" DBH R GREATER ANTING EEDINGS, HIPS	CREDITED	FOREST PLANTING PROVIDED OUTSIDE THE 100 YR FLOOD PLAIN	0.06 Ac	0.00 Ac 0.33	0.06 Ac 0.39
INIMUM ONITORING ERTILIZER + NEEDED)	NON- CREDITED	FOREST RETENTION INSIDE THE 100-YR FLOOD PLAIN	3.15 Ac	4.12 Ac 4.10	7.27 Ac 7.25
ATÉR ++ RUNING	CREDITED	FOREST RETENTION OUTSIDE THE 100-YR FLOOD PLAIN	0.30 Ac	15.23 Ac 15.15	15.53 Ac 15.45
Y ACTIVITIES DURING THESE MONTHS ARE DEPENDENT UPON GROUND CONDITIONS	NON- CREDITED	NON-WOODED ENVIRONMENTAL AREAS FOR NATURAL REGENERATION	0.64 Ac	0.00 Ac	0.64 Ac
GREATLY RECOMMENDED RECOMMENDED WITH ADDITIONAL CARE RECOMMENDED		TOTAL AREA OF EACH FOREST CONSERVATION AREA	4.35 Ac	19.35 Ac 1 9.58	23.70 Ac 23.93
DEPENDANT UPON SITE CONDITIONS	• • • • • • • • • • • • • • • • • • •				

FOREST CONSERVATION PLANTING QUANT			
FOREST PLANTING LOCATION NO.	A (esmt.1)	B (esmt.1)	FCE#2
AREA TO BE PLANTED (IN AC.)	0.06	0.20	0/33
BASE QUANTITY OF SEEDLING TREES REQUIRED (AT 700 TREES/AC.)	42	140	SEE SDP-04-136 FOR TREE SIZE AND DENSITY
CREDIT FOR LANDSCAPE TREES	N/A	N/A	AND DENSIT
REQUIRED QUANTITY OF SEEDLING TREES TO BE PLANTED*	42	140	

FOREST CONSERVATION PLANT LIST						
PLANT NAME (BOTANICAL/COMMON)	FOREST PLANTING A	AREA	FOREST PLANTING	AREA		
	Α		В			
ACER RUBRUM/RED MAPLE	10	,	28			
CERCIS CANADENSIS/EASTERN REDBUD	8		28			
FRAXINUS PENNSYLVANICA/GREEN ASH	8		28			
PLATANUS OCCIDENTIALIS/ AMERICAN SYCAMORE (PLANETREE)	8		28			
QUERCUS BICOLOR/SWAMP WHITE OAK	8		28			

Financial surety for the forest conservation planting and retention is not required due to being part of a Public School Project.



CONSTRUCTION PERIOD PROTECTION PROGRAM

- 1. The limit of forest retention shall be staked and flagged.
- 2. A pre-construction meeting at the site should be held to confirm the limits of clearing specified. The meeting should include the owner or the owner's representative, the on-site foreman in charge of land disturbance, the environmental consultant and the appropriate Howard County inspectors.
- 3. Forest protection devices and signs (see details) shall be installed prior to any clearing or grading. The protection devices and signs shall be maintained during the entire construction period. None of the devices shall be anchored or attached in any way to the trees to be saved. The maintenance time frame may be extended to accommodate subsequent phases of development.
- 4. 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 sodding or planting grass is not permitted within the forest conservation area once it's established.
- 5. At the end of the construction period, the designated gualified professional shall convey certification to the administrator of the Howard County Forest Conservation Program 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 required for the post-construction period have been installed.

Upon review of the final certification document for completeness and accuracy, the program coordinator will notify the owner of release from the construction period obligations. The 2-year (min.) post-construction management and protection period then commences.

FOREST CONSERVATION PROGRAM SEQUENCE

- OBTAIN ALL NECESSARY PERMITS.
- STAKEOUT LIMITS OF DISTURBANCE. 3, FIELD MEETING TO REVIEW AND VERIFY LIMIT OF DISTURBANCE FOR THE LIMITS OF GRADING AND CONSTRUCTION.
- INSTALL FOREST CONSERVATION SIGNS (SEE DETAIL ON THIS SHEET) AND FOREST PROTECTION DEVICES ALONG THE FCE AREAS. (FENCES) ALONG THE PORTION OF THE LIMIT OF DISTURBANCE (THAT INVOLVES CLEARING AND/OR RETENTION OF TREES) SEE ALSO THE SEDIMENT CONTROL PLANS FOR OTHER PROTECTION MEASURES.
- COMMENCE SITE CONSTRUCTION.
- 6. ONCE THE SOIL IS STABILIZED AND GRADING HAS BEEN COMPLETED, REMOVE TREE PROTECTION FENCE, BUT SIGNS ARE REQUIRED TO REMAIN.
- 7. INSPECTION AND CERTIFICATION FOR THE RELEASE OF THE CONSTRUCTION
- PERIOD OBLIGATIONS; START OF POST-CONSTRUCTION MANAGEMENT PERIOD. 8. POST-CONSTRUCTION MANAGEMENT FOR A PERIOD OF 2 YEARS (MIN.).
- 9. FINAL INSPECTION AND CERTIFICATION FOR THE RELEASE OF THE OWNER'S FOREST CONSERVATION OBLIGATION.
- GENERAL NOTES
- This reforestation plan is provided in accordance with the requirements of Subtitle 12 "Forest Conservation" of the Howard County Code.
- 2. Implementation of this plan must be performed by a contractor that is knowledgeable and experienced in afforestation/reforestation techniques and practices.
- 3. The owner is responsible for a 2-year (min.) post-construction maintenance period which involves activities necessary to ensure survival and growth of the conservation area. Two inspection 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.
- 4. At the end of the post-construction management and protection period, certification by a qualified consultant will be required before to the owner can be released from his/her forest conservation obligation to the administrator of the Howard County Forest Conservation program.
- 5. The contractor is responsible for the location of any existing utilities. The repair of any utilities damaged by the contractor shall be at the contractor's expense.
- 6. The forest conservation easements shown on this plan will be established to fulfill the requirements of the Forest Conservation Program. No clearing, grading or construction is permitted within the forest conservation easements, however, forest management practices as defined in the Deed of Forest Conservation Easement are allowed.
- 7. The bearing and distances of the forest conservation easements can be seen on the recorded final subdivision plat.



G. L. W. FILE No.

01171

SHEET

Chier. Development Engineering Division MAJ	Edit Date				
GLW GUTSCHICK LITTLE &	WEBER, P.A.				
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK					
BURTONSVILLE, MARYLAND 20866 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2					
 01171\FINAL5\01171FD.dwa DES	.LMM DRN.LMM CHK.CKG	REV FC-WORKGHEET, TAB. & MCHO. TO ACCOUNT FOR THE CHANGES	TO FLE#2	BY	ΔPP'R

PREPARED FOR : HOWARD COUNTY PUBLIC SCHOOL SYSTEM MUSGROVE FARM, LLC. 8808 CENTRE PARK DRIVE 10910 ROUTE 108 SUITE 209 COLUMBIA. MD 21045 ELLICOTT CITY, MD 21043 Attn: MR. BILL GRAU Attn: MR. WILLIAM BROWN 410-313-6807 410-964-5522

FINAL FOREST CONSERVATION PLAN NOTES, SCHEDULES and DETAILS	SCALE	ZONING
MUSGROVE FARM BUILDABLE BULK PARCEL A AND NON-BUILDABLE PRESERVATION PARCEL B	NT5	RR-DEO
LIBER 3497 FOLIO 208	DATE JUNE	TAX MAP - GRID 21-12
ELECTION DISTRICT No. 3+4 HOWARD COUNTY, MARYLAND	2003	22-1+7