

# GENERAL NOTES

This plan is submitted to fulfill the woodland conservation requirements for

Cutting or clearing of woodland not in conformance with this plan or without the expressed written consent of the Planning Director or designee shall be subject to a \$9.00 per square foot mitigation fee.

A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspection and Enforcement, shall be contracted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodland conservation measures shown on this plan will be discussed in detail.

The developer or builder of the lots or parcels shown on this plan shall notify future buyers of any woodland conservation areas through the provision of a copy of this plan at time of contract signing. Future property owners are also subject to this requirement.

The owners of the property subject to this tree conservation plan are solely responsible for conformance to the requirements contained herein.

The property is within Environmental Strategy Area, ESA-2 of Plan Prince George's 2035 formerly the Developing Tier and is zoned R-R (Rural Residential.

The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.

. The property is adjacent to Capital Beltway Interstate 495 which is classified as a Freeway roadway. This plan is grandfathered under CB-27-2010, Section 25-177(g).

### **MOODLAND PRESERVATION AND RETENTION NOTES**

10. All woodlands designated on this plan for preservation are the responsibility of the property owner. The woodland areas shall remain in a natural staté. This includes the canopy trees and understory vegetation. A revised tree conservation plan is required prior to clearing woodland areas that are not specifically identified to be cleared on the approved

Tree and woodland conservation methods such as root pruning shall be

conducted as noted on this plan. . The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flagged or staked in the field prior to the pre-construction meeting. Upon approval of the locations by the county inspector, installation of the TPFs may begin.

All temporary tree protection fencing required by this plan shall be installed prior to the commencement of clearing and grading of the site and shall remain in place until the bond is released for the project. Failure to install and maintain temporary or permanent tree protective devices is a violation of this TCP2.

Moodland preservation areas shall be posted with signage as shown on the plans at the same time as the temporary TPF installation. These signs must remain in perpetuity. Removal of Hazcrdous Trees or Limbs by Developers or Builders

. The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or part thereof designated by the county as dead, dying, or hazardous may be removed.

5. A tree is considered hazardous if a condition is present which leads a Certified Arborist or Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area, or other high use area and result in personal injury or property

During the initial stages of clearing and grading, if hazardous trees are present, or trees are present that are not hazardous but are leaning into the disturbed area, the permitee shall remove said trees using a chain saw. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the county inspector. Only after approval by the inspector may the tree be cut by chain saw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.

8. If a tree or trees become hazardous prior to bond release for the project, due to storm events or other situations not resulting from an action by the permitee, prior to removal, a Certified Arborist or a Licensed Tree Expert must certify that the tree or the portion of the tree in question has a potential to fall and strike a structure, parking area, or other high use area and may result in personal injury or property damage If a tree or portions thereof are in imminent danger of striking a structure parkina area, or other high use area and may result in personal injury or property damage then the certification is not required and the permitee shall take corrective action immediately. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.

If corrective pruning may alleviate a hazardous condition, the Certified Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the appropriate ANSI A-300 Pruning Standards. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.

Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contract with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush pilës that will serve as wildlife habitat.

Tree work to be completed within a road right-of-way requires a permit from the Maruland Department of Natural Resources unless the tree removal is shown within the approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.

7. Tree protection fencing (TPFs) is not required for all or portions of this plan because an undisturbed 100-foot buffer of open land/or a 50-foot forested buffer is being maintained between the limit of disturbance (LOD) and the woodland preservation areas. If the LOD changes and the change impacts these buffers, the county inspector shall be contacted to evaluate the change to determine if a revision to the tree conservation plan is necessary or if installation TPFs will be required.

# AFFORESTATION AND REFORESTATION NOTES

All afforestation/reforestation bonding, based on square footage, shall be posted with the county prior to the issuance of any permits. These bonds will be retained as surety until all required activities have been satisfied or the required timeframe for maintenance has passed, whichever is longer.

The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit. (This standard note may be modified as necessary to address which building permits are adjacent to the proposed planting areas.) Seedling planting is to occur from November through May only. No planting shall be dune while ground is frozen. Planting with large caliper stock or containerized stock may be done at any time provided a detailed maintenance schedule is provided.

If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type 2 Tree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title to the homeowner, the developer or builder shall obtain a signed statement from the burchaser indicating that they understand that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that document shall be presented to the Grading Inspector and the county.

Reforestation areas shall not be moved. The management of competing vegetation around individual trees and the removal of noxious, invasive, and non-native vegetation within the reforestation areas is acceptable.

All required temporary tree protection fencing shall be installed prior to the clearing and grading of the site and shall remain in place until the permanent tree protection fencing is installed with the required planting. The temporary fencing is not required to be installed if the permanent fencing is installed prior to clearing and arading of the site. Failure to install and maintain temporary or permanent tree protective fencing is a violation of this TCP2.

Afforestation/reforestation areas shall be posted with notification signage, as shown on the plans, at the same time as the permanent protection fencing installation. These signs shall remain in perpetuity.

The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.

At time of issuance of the first permit, the following information shall be submitted to the M-NCPPC Planning Department regarding the contractor responsible for implementation of this plan; contractor name; business name (If different); address; Results of annual survival checks for each of the required four years ofter tree planting shall be reported to the M-NCPPC, Planning Department.

Failure to establish the afforesation or reforestation within the prescribed time frame will resulting the forfeiture of the reforestation bond and/or a violation of this plan including the associated \$9.00 per square foot penalty unless the county inspector approves a written extension.

#### PLANTING SPECIFICATION NOTES Quantitu: (See Plant Schedule)

roots) shall be present.

Type: (See Plant Schedule) Plant Quality Standards: The plants selected shall be healthy and sturdy representatives of their species. Seedlings shall have a minimum top growth of 18". The diameter of the root coilar (the part of the root just below ground level) shall be at least 3/8". The roots shall be well developed and at least 8" long, no more than twenty-five percent (25%) of the root system (both primary and auxiliary/fibrous

Plants that do not have an abundance of well developed terminal buds on the leaders and branches shall be rejected

Plants shall be shipped by the nursery immediately after lifting from the field or removal from the green house, and planted immediately upon receipt by the landscape contractor.

If the plants cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with their root masses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other suitable

Planting Handling: The quantity of seedlings taken to the tield shall not exceed the quantity that can be plated in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.

material and shall be maintained through periodic watering, until the time of planting.

Timing of Planting: The best time to plant seedlings is while they are dormant, prior to spring budding. The most suitable months for planting are March and April, when the soil is moist, but may be planted from March through November. No planting shall be done write ground is frozen. Planting shall occur within one growing season of the issuance of grading/building permits and/or reaching the final grades and stabilization of planting areas.

Seedling Planting: Tree seedlings shall be hand planted using a dibble bar or sharp-shooter shovel. It is important that the seedling be placed in the hole so that the roots can spread out naturally, they should not be twisted, balled up or bent. Moist soil should then be packed firmly around the roots. Seedlings should be planted at a depth where their roots lie just below ground surface. Air pockets should not be left after closing the hole which would allow the roots to dry out. See planting details for further explanation. If the contractor wishes to plant by another method, the preparer of this tree conservation plan must be contracted

Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to the Planting Layout detail for a description of the general planting theory.

Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil preparation and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be taken at a rate that provides one soil sample for each area that appears to have a different soil type (if the entire area appears uniform, then only one sample is necessary), and submitted for testing to a private company. The company of choice shall make recommendations for improving the existing soil. The soil will be tested and recommended for corrections of soil texture, pH, magnesium, phosphorus, potassium, calcium and organic matter.

Soil Improvement Measures: The soil shall then be improved according to the recommendations made by the testing company.

Fencing and Signage: Final protective fencing shall be placed on the visible and/or development side of planting areas. The final protective fence shall be installed upon completion of planting operation unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheet.

Planting method: Consult the Planting Detail(s) shown on this plan.

and give his approval before planting may begin.

Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan).

Groundcover Establishment: The remaining disturbed area between seedling planting site shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre Mowing: No mowing shall be allowed in any planting area.

Survival Check for Bond Release: The seedling planting is to be checked at the

end of each year for four years to assure that no less than 75% of the original planted quantity survives. If the minimum number has not been provided the area must be supplemented with additional seedlings to reach the required number at time

Source of Seedlings: State name, address, and phone number of nursery or supplier. When areas designated for reforestation will be reforested by natural regeneration the following notes shall be added to the plan:

FOUR-YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION AREAS Field check the re-afforestation area according to the following schedule:

Site Preparation and Tree Planting Survival check once annually (September-November) see Note 1) Waterina is needed (2 x month)

Control of undesirable vegetation as needed ( $1 \times 10^{-5}$  June and  $1 \times 10^{-5}$ Year 2-3: Reinforcement planting is needed (See Note 2)

Survival check once annually (September-November) Control of undesirable vegetation if needed (I x in May and I x in August min.)

Reinforcement planting if needed. (See Note 2) Survival Check (September-November)

1. Survival Check: Check planted stock against plant list (or as-built) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner after each inspection.

Remove all dead plants. 2. Reinforcement Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 75% of the number originally planted. If a particular species suffers unusually high

mortality, replace with an alternative plant type. 3. Miscellaneous: Fertilization or watering during years I through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis. Prior to the issuance of the first permit for the development shown on this TCP2, all off

site woodland conservation required by this plan shall be identified on an approved

County. Proof of recordation of the off-site conservation shall be provided to the

M-NCPPC, Planning Department prior to issuance of any permit for the associated plan.

TCP2 plan and recorded as an off-site easement in the land records of Prince George's

When woodlands and/or specimen, historic or champion trees are to remain:

permitted.

POST DEVELOPMENT NOTES

If the developer or builder no longer has an interest in the property and the new owner desires to remove a hazardous tree or portion thereof, the new owner shall obtain a written statement from a Certified Arborist or Licensed Tree Expert identifying the hazardous condition and the proposed corrective measures prior to having the work conducted. After property documentation has been completed per the handout "Guidance for Prince George's County Property Owners, Preservation of Moodland Conservation Areas", the arborist or tree expert may then remove the tree. The stump shall be cut as close to the ground as possible and left in place. The removal or grinding of the stumps in the woodland conservation area is not

Tasks

Monitorina

Water++

Recommended Optimal time

Recommended

Recommended with Additional Care

1. Activities during November through February depend on ground conditions.
 2. No fall planting of oaks and pines.

3. The planting of outs are priess.
3. The planting and care of trees most successful when coordinated with the local conditions.
This calendar summarizes some of the recommended time frames for basic reforestation

TREE PLANTING and MAINTENANCE CALENDAR

Months

nt Felot Mar Apr May June July Aug 5ep Oct Novt Dect

Dependent Upon Site Conditions: Meekly Matering is Strongly Recommended From May Through October Unless Weekly Rainfall Equals I"  $\,$ 

\_\_\_\_

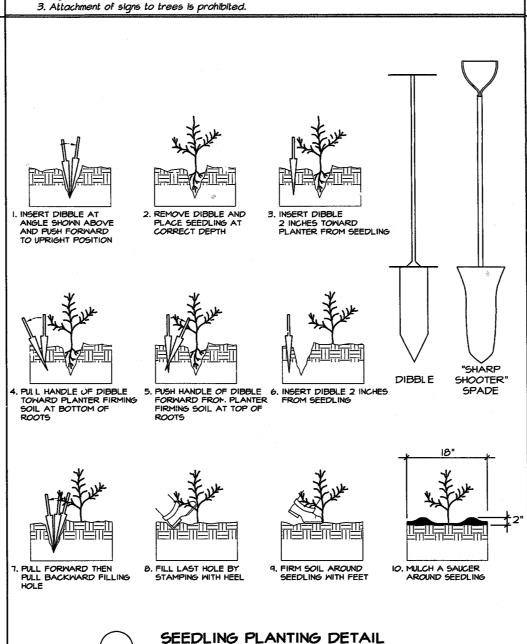
If a tree or portions thereof are in imminent danger of striking a structure, parking area, or other high use area and may result in personal injury or property damage then the certification is not required and the permittee shall take corrective action immediately. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.

Tree work to be completed within a road right-of-way requires a permit from the Maryland Department of Natural Resources unless the tree removal is shown within the approve limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.

The removal of noxious, invasive, and non-native plant species from any woodland preservation area shall be done with the use of hand-held equipment only (pruners or a chain saw). These plants may be cut near the around and material less than two inches diameter may be removed from the area and disposed of appropriately, All material from these noxious, invasive, and non-native plants greater than two (2) inches diameter shall be cut to allow contact with the ground, thus encouraging

The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invasive, noxious, or non-native plants is permitted if done as an application of the chemical directly to the cut stump immediately following cutting of plant tops. The use of any herbicide shall be done in accordance with the label instructions.

The use of chainsaws is extremely dangerous and should not be conducted with poorly maintained equipment, without safety equipment, or by individuals not trained in the use of this equipment for the pruning and/or cutting of trees.



<u>Signage</u>

PLAN SYMBOL =

(PRESERVATION)

PLAN SYMBOL =

PLAN SYMBOL =

(SPECIMEN TREE)

Min II" ----

FOREST

RETENTION

AREA

MACHINERY, DUMPING

OR STORAGE OF

ANY MATERIALS IS

PROHIBITED

(REFORESTATION)

\_\_\_\_\_ Min II" \_\_\_\_\_

Conservation Area

REFORESTATION

PROJECT

Trees for Your Future

SPECIMEN

TREE

DO NOT REMOVE

MACHINERY, DUMPING

OR STORAGE OF

ANY MATERIALS IS

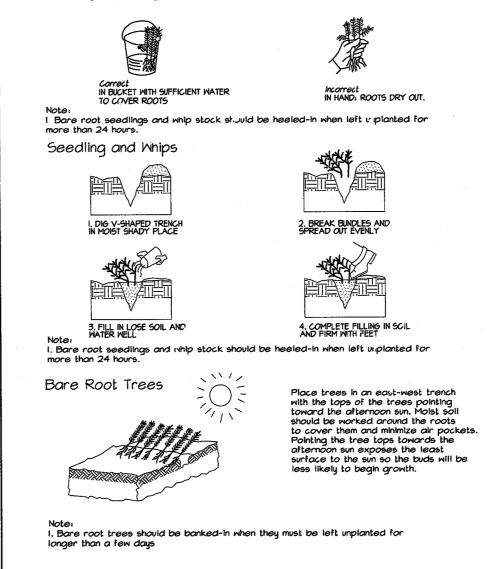
PROHIBITED

VIOLATORS ARE SUBJECT TO FINES AS IMPOSED BY THE MARYLAND FOREST CONSERVATION ACT OF 1991

I. Bottom of signs to be higher than top of tree protection fence.

may warrant placing signs closer or farther apart.

2. Signs to be placed approximately 50' feet apart. Conditions on site affecting visibility



HANDLING BARE ROOT STOCK

. Forest preservation, specimen tree and re/af-forestation protection device.

3. Boundaries of protected areas should be staked and flagged prior to installing

TREE PROTECTION FENCING - TYPE I

2. Protected areas will be set as part of the review process.

ó. Device should be properly maintained during construction.

4. Avoid root damage when placing anchor posts.

. Use brightly colored surveyor's flagging every 4'.

5. Wire should be securely attached to posts.

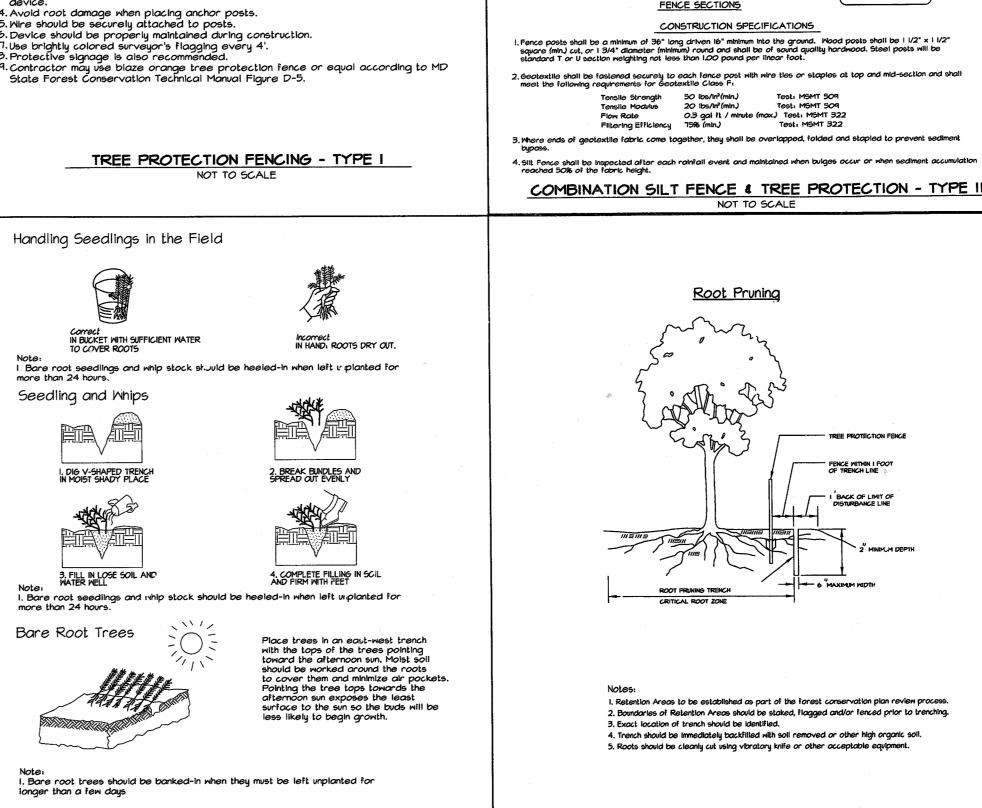
Handling Seedlings in the Field

3. Protective sianage is also recommended

2 STRAND GALVANIZED STEE

PLAN SYMBOL

SURVEYOR'S FLAGGING



NOTES:

1. Retention Area will be set as part of the review process.

2. Boundaries of Retention Area should Le staked and flagge

3. Avoid root damage when placing anchor posts.

4. Wire should be securely attached to posts.

5. Device should be properly maintained during construction.

6. Use brightly colored surveyor's flagging every 4 feet.

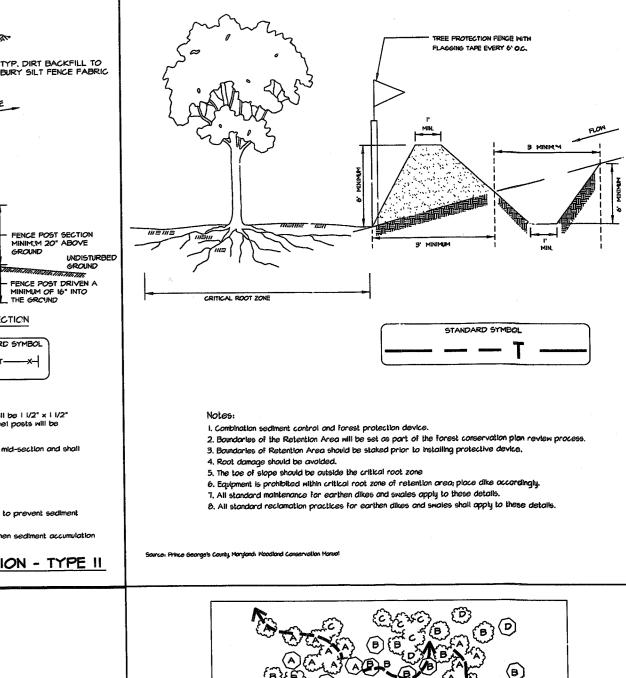
7. Protective signage is also recommended.

MBED GEOTEXTILE CLASS F A MINIMUM OF 8" VERTICALLY

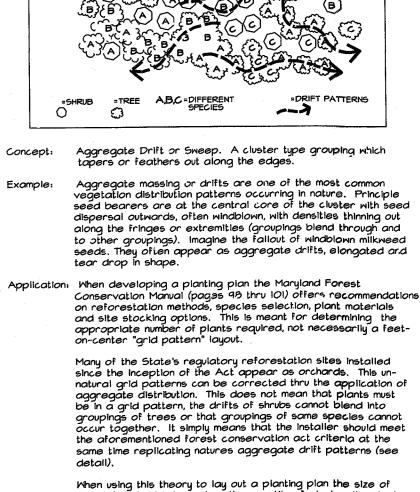
TANDARD SYMBOL

STAPLE

JOINING TWO ADJACENT SILT



COMBINATION EARTH DIKE & TREE PROTECTION - TYPE



When using this theory to lay out a planting plan the size of the drifts should depend on the quantity of plants allocated, the scale of the site, and the careful consideration of the

PLANTING LAYOUT (AGGREGATE DISTRIBUTION DRIFT THEORY)

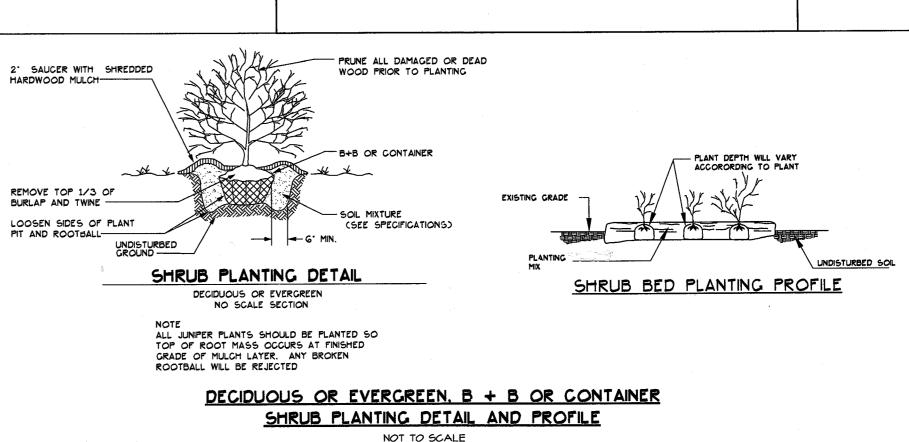
#### PLANT SCHEDULE FOR RE/AFFORESTATION STOCK SPECIFICATION:

1000 SEEDLINGS PER ACRE TOTAL RE/AFFORESTATION PROVIDED: 5.28 ACRES

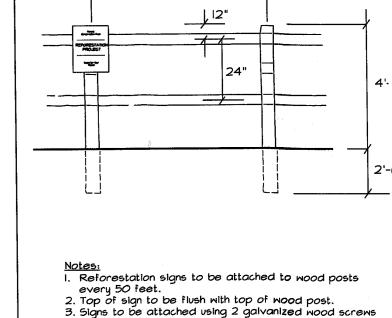
Reforestation Area	Acreage	Seedling Selection					
		Tulip Poplar	Sweet Gum	Red Maple	Red Oak	White Oak	Total No. of Seedlings
	2.90	580	580	580	580	580	2,900
2	0.90	180	180	180	180	180	900
3	0.11	22	22	22	22	22	IIO
4	0.14	28	28	28	28	28	140
5	0.08	16	16	16	16	16	80
6	0.46	92	92	92	92	92	460
7	0.69	138	138	138	138	138	690
TOTAL	5.28	1042	1042	1042	1042	1042	5,280

1. All tree/shrub species planted within the re/afforestation areas, should be randomly distributed throughout the proposed relafforestation area, so as to promote a natural woodland structure. (See Planting Layout detail) 2. In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental

Planning Section.



Source: Manufand State Forest Conservation Technical Manual, 3rd Edition - 19



SPLIT RAIL FENCE DETAIL

each with a galvanized washer

Reason for Revision

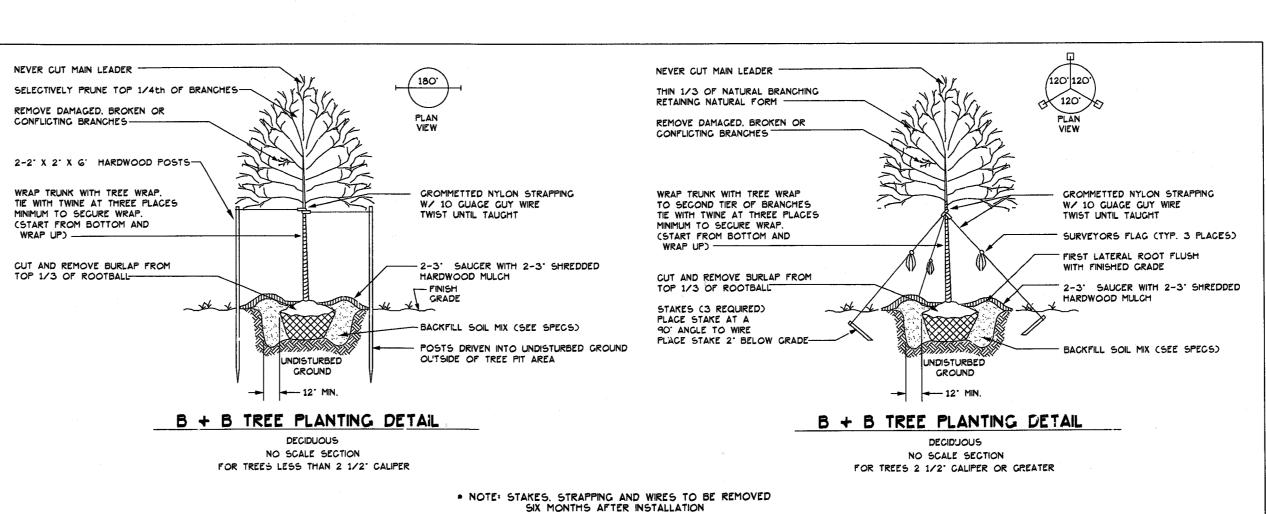
ROMMETTED NYLON STRAPPING -2" X 2" X 6" MIN. HARDWOOD STAKES SET 1/8 OF ROOTBALL ABOVE FINISH . 2-3" SAUGER WITH 2-3" SHREDDED CUT AND REMOVE BURLAP FROM BACKFILL SOIL MIX (SEE SPECS) FOR TREES LESS THAN 12" HT. \* NOTE: STAKES, STRAPPING AND WIRES TO BE REMOVED SIX MONTHS AFTER INSTALLATION

EVERGREEN TREE PLANTING DETAIL

CONTAINER TREE PLANTING DETAIL

PRUNE ALL DAMAGED OR DEAD

WOOD PRIOR TO PLANTING



John P. Markovich 10/12/01 T. BURKE 9/12/2017

DETAILS AND SPECIFICATIONS TREE CONSERVATION PLAN - TYPE II FOR ROUGH GRADING D'ARCY PARK SOUTH

Prince George's County Planning Department, M-NCPPC

**Environmental Planning Section** 

TREE CONSERVATION PLAN APPROVAL

TCP 2 - 34 - 98

LANDS OF GKG PARTNERSHIP

MELWOOD DISTRICT No. 15 PRINCE GEORGE'S COUNTY, MARYLAND

SHEET 7 OF 7 WSSC 200' SHEET SERIES 203 SE 08 & 204 SE 08 June 28, 2017 3/21/17 | Revised to show rough grading only

11721 WOODMORE ROAD, SUITE 200 MITCHELLVILLE, MARYLAND 20721 BEN DYER ASSOCIATES, INC Engineers / Surveyors / Planners 11/8/07 | Revised per MNCPPC Staff Report for DSP-06079 | MR | COPYRIGHT © 2006 BEN DYER ASSOCIATES, IN 8/1/07 Revised per PGCPB No. 06-220 Resolution BY SCALE NTS Mike Petrakis DESCRIPTION Qualified Professional 54.049-2 DATE November, 2006 REVISIONS COMAR 08.19.06.01 J:\LD7-PROJ\97155-LD7\SHEETS\TCP2s-RG-DET.dwg, 6/28/2017 4:24:40 PM,

GKG PARTNERSHIP LANHAM, MD 20706-4323

4640 FORBES BOULEVARD J. P. SQUARED DEVELOPMENT, LLC 4700 HOLLY RIDGE ROAD

ROCKVILLE, MD 20853

DECIDUOUS, B + B TREE PLANTING DETAILS

T-6