

Afforestation and Reforestation Notes

- All afforestation and reforestation bonds, 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 area.) Seedling planting is to occur from November through May only. No planting shall be done while ground is frozen. Planting with larger caliper stock or containerized stock may be done at any time provided a detailed naintenance 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 purchaser 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
- Reforestation areas shall not be mowed. The management of competing vegetation around individual trees and the removal of noxious, invasive, and non-native vegetation within the reforestation areas is acceptable
- e. 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 nstalled with the required planting. The temporary fencing is not required to be installed if the permanent fencing is installed prior to clearing and grading 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
- g. The county inspector shall be notified prior to soil preparation or initiation of any tree
- h. 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; and phone number.
- Results of annual survival checks for each of the required four years after tree planting shall be reported to the M-NCPPC, Planning Department.
- Failure to establish the afforestation or reforestation within the prescribed time frame will result in 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

Planting Specification Notes

- 1. Quantity: (See Plant Schedule)
- 2 Type: (See Plant Schedule) 3. 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 collar (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 roots shall be present.
- Plants that do not have an abundance of well developed terminal buds on the leaders and
- 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 material and shall be maintained through periodic watering, until the time of planting.
- 4. Plant Handling: the quantity of seedlings taken to the field shall not exceed the quantity that can be planted in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.

- 5. 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 while round 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 the 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 contacted and give his approval before planting may begin.

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

9. Soil Improvement Measures: the soil shall then be improved according to the

development. Signs shall be posted per the signage detail on this sheet.

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

10. 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

12. Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted)

13. Groundcover Establishment: the remaining disturbed area between seedling planting sites

15. Survival Check for Bond Release: The seedling planting is to be checked at the end of

16. 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

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

shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre.

with additional seedlings to reach the required number at time of planting.

All areas designated for reforestation shall be reforested by natural regeneration.

completion of planting operations unless it was installed during the initial stages of

phosphorus, potassium, calcium and organic matter.

recommendations made by the testing company

to each plating site (see detail shown on this plan).

14. Mowing: No mowing shall be allowed in any planting area.

notes shall be added to the plan:

The following requirements and conditions apply:

Natural Regeneration Notes

- species from the desired indigenous hardwoods. This maintenance shall occur for a period After one and two years all desirable seedlings and saplings shall be counted and flagged with surveyors tape in the late fall. Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to If after two years there is less than one seedling per 60 square feet and there are the Planting Layout detail for a description of the general planting theory.
- those areas with container grown seedlings at a rate of one per 60 square feet. Only 8. Soil: Upon the completion of all grading operations, a soil test shall be conducted to naturally occurring species already present within the site shall be used. 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 A Four-Year Management Plan for Re/Afforestation shall be added to the plan as follows:

will be tested and recommended for corrections of soil texture, pH, magnesium,

Field check the re-afforestation area according to the following schedule:

Four-Year Management Plan for Re/Afforestion Areas

weeks after chemical treatments are completed

applied as necessary.

used to reach those areas.

- Site preparation and Tree Planting Survival check once annually (September-November) see Note 1) Watering is needed (2 x month) Control of undesirable vegetation as needed (1 x in June and 1 x in September
- Reinforcement planting is needed (See Note 2)

All existing turf, ground covers, and invasive species shall be exterminated using a general

Reforestation signs shall be installed every fifty feet or as appropriate and two strand wire

Reforestation internal to the site shall be posted as required in the direction of any trails

Natural regeneration shall be encouraged by semi-annual maintenance of the designated

areas. The maintenance shall, at a minimum, require removal of competitive and invasive

ndications that natural regeneration is not occurring adequately then the owners shall plant

broadcast herbicide such as "Round-Up" or equivalent. Secondary applications shall be

Roto-tilling of turf areas and manual removal of invasive vines shall be completed two

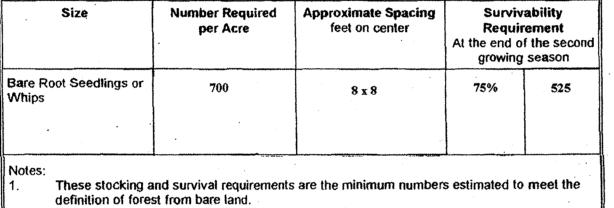
fencing shall be installed along road frontages adjacent to any reforestation areas.

Care shall be taken to avoid spraying any hardwood seedlings or saplings.

- Survival check once annually (September-November) Control of undesirable vegetation if needed (1 x in May and 1 x in August min.)
- Reinforcement planting if needed. (See Note 2)
 - 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
 - 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
 - 3. Miscellaneous: Fertilization or watering during years 1 through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis.

of the 100 year. Total = 0.3306 ac. or 14,403# LOT 17-A Total = 0.3061 ac r 13,332 \$ Total - 0.4130 ac + Fence Formally 50' Abandoned Abendoned by deed (L.31874 e F.557) Limit of Disturbance) PLAIN Prop 2 Story The Dogwood Story-FF = 190.10 Ex. G&E Pole 164186 to be removed

REFORESTATION AREA



In certain circumstances, any combination of the above mentioned stocking options, dry seeding, tree shelters, transplants, and/or natural regeneration may be appropriate strategies to fulfill the requirements of an approved TCP. They will be evaluated on a case-by-case basis by the approving authority.

Spacing does not imply that trees or shrubs must be planted in a grid pattern

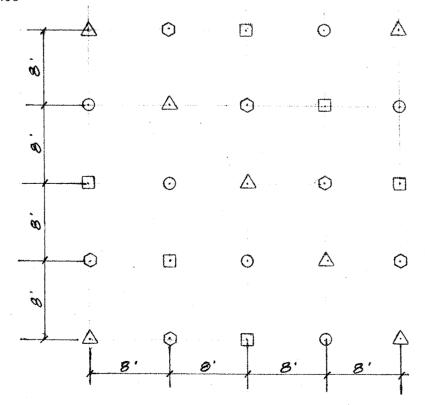
Site Stocking

Required Planting: 700 per 1.0 ac. = 43,560 sf.

Prop. Planting: 0.34 ac. = 14,810 sf. Required = 13,939 x 700 + 43,560 = 224

224 seed lings required 240 seedlings Provided.

Required Planting = 0.32 ac. = 13,939 af. Permanent



PLANTING DETAIL



SOILS MAP

Not to Scale SOUS TARIF

| JOILS TABLE | | | | | | | | | |
|--------------------|---|--------------------------|---------------------------|---------------------------|-------------------|--|--|--|--|
| Map Unit Symbol | Map Unit Name | K – Factor Whole Soil | Hydrologic Soils Group | Hydrologic Soils Group | Drainage Class | | | | |
| SnD | Sassafras urban land complex 5-15% slopes | 0.28 | No | В | Well drained | | | | |
| SOD | Sassafras and croom soils 10-15 % slopes | 0.28 | No | В | Well drained | | | | |
| ZS | Zekiah and issue soils | 0.37 | Yes | С | Poorly drained | | | | |

PLANTING SCHEDULE

| No. | Symbol | Botanic Name | Common Name | Size S | Spacing | Method | Quant |
|------|-------------|----------------------|-------------------|----------|---------|--|-------|
| 1. | Δ | Juniperus virginiana | Eastern Red cedar | seedling | 8'oc | seedling | 50 |
| 2. | 0 | Betula nigra | River Birch | n | u | * | 75 |
| 3. | 0 | Quercus palustris | Pin oak | n | | n | 75 |
| 4. | | Prunus bensylvanica | Pin cherry | u | | ** | 40 |
| Tota | al Planting | S | | | ••••••• | ······································ | 34 |

Standard Type 2 Tree Conservation Plan Notes

GENERAL NOTES To include with all Type 2 TCPs:

2. 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.

If <u>27388-2007</u>

1. This plan is submitted to fulfill the woodland conservation requirements for

this TCP2 also expires and is no longer valid.

- 3. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Public Works and Transportation or the Department of Environmental Resources, as appropriate, shall be contacted 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.
- 4. 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.
- 5. The owners of the property subject to this tree conservation plan are solely responsible for conformance to the requirements contained herein
- 6. The property is within the _ (Developed, Developing, **Aurai**) Tier and is zoned R-55
- The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic
- 8. The site is not adjacent to a roadway classified as arterial or greater.
- 9. This plan is not grandfathered under CB-27-2010, Section 25-117 (g).

Tree Preservation and Retention Notes

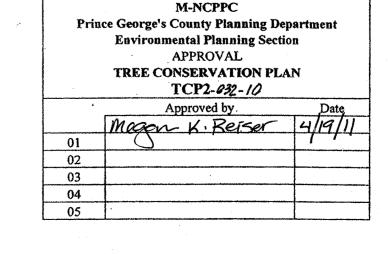
- a. All woodlands designated on this plan for preservation are the responsibility of the property owner. The woodland areas shall remain in a natural state. This includes the canopy trees and understory vegetation. A revised tree conservation plan is required prior to clearing woodland areas that are not specifically identified to be cleared on the approved TCP2.
- b. Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan.
- c. 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 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.
- Woodland 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.

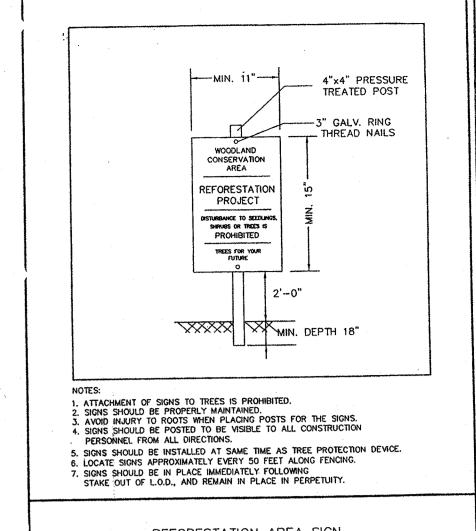
Removal of Hazardous Trees or Limbs by Developers or Builders

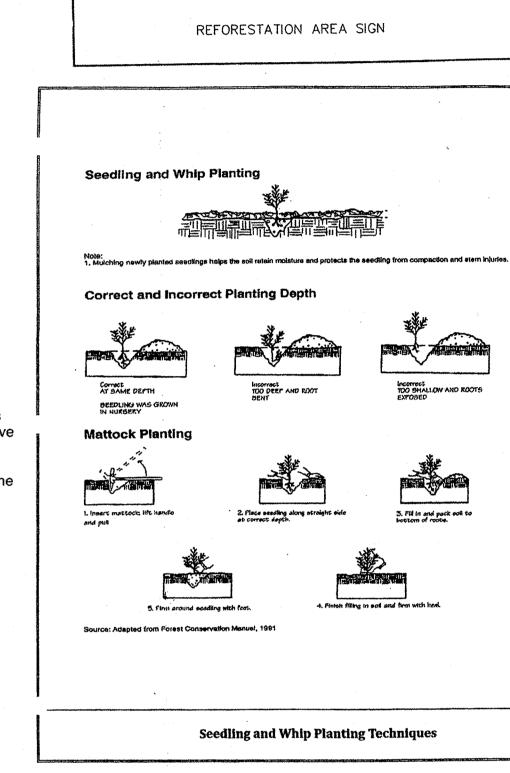
- f. The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or parts thereof designated by the county as dead, dying, or hazardous may be removed.
- g. A tree is considered hazardous if a condition is 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
- 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 chainsaw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- 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, parking 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.

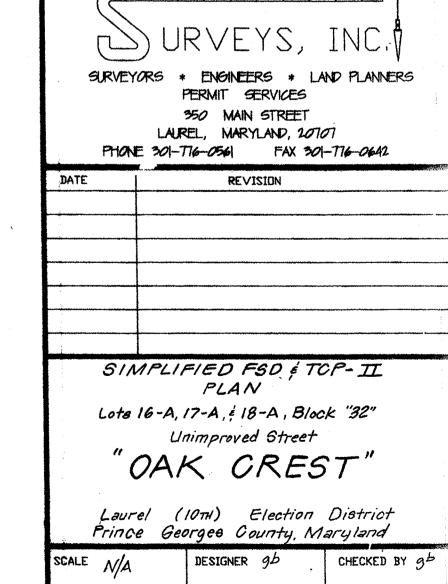
Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contact with the ground, thus encouraging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

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 approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.









DRAFTER db

SHEET NUMBER

2 of 2

DATE 12.23.10

08-19

IDB NUMBER

FIELD BOOK ___

FILE NUMBER