

6. The property is located within environmental strategy area 1 of plan Prince George's 2035 (formerly the Developer Tier). It is zoned R-10 with Residential Revitalization Overlay 7. The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.

8. The property is adjacent to Queens Chopel Road which is classified as an Arterial roadway.

9. This plan is not grandfathered by CB27-2010, Section 25-119(g). Tree 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 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. 11. Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan. 12. 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.

13. 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. 14. Woodland preservation areas shall be posted with signage as shown on the plans at the same time as the temporary

TCF installation. These signs must remain in perpetuity. Removal of Hazardous Trees or Limbs by Developers or Builders 15. 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

16. 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 trees has a potential to fall and strike a structure, parking area, or other high use area and result in personal injury or property damage.

hazardous but are leaning into the disturbed area, the permitee shall remove said trees using a chain saw. Corrective

17. During the initial stages of clearing and grading, if hazardous trees are present, or trees are present that are not

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. 18. 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. a. 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 photographs shall be submitted to the inspector for documentation of the damage.

b. 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. c. 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.

<u>Afforestation and Reforestation Notes</u> 19. 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.

20. The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit for the ten (10) units at the far north of the site. Seedling planting is to occur from November through May only. No planting shall be done while the ground is frozen. Planting with larger caliper stock or containerized stock may be done at any time provided a detailed maintenance schedule is provided.

21. 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 county inspector. 22. 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.

23. 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 the clearing and grading of the site. Failure to install and maintain temporary or permanent tree protective fencing is a violation of this TCP2. 24. 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. 25. The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site. 26. 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. 27. Result of annual survival check for each of the required four years after tree planting shall be reported to the M-NCPPC, Planning Department.

28. 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 extension.

<u>Planting Specification Notes</u> 29. Quantity: (See Plant Schedule)

30. Type: (See Plant Schedule) 31. Plant Quality Standards: The plants selected shall be healthy and sturdy representative 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.

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

c. 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 ans shall be maintained through periodic watering, until the time of planting. 32. 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. 33. 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 soils is moist, but may be planted from March through November. No planting shall be done while the 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.

34. 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 shall 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 hold 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 and give his approval before planting may

35. 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. 36. 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 on soil sample for each area that appears to have a different soil type (if the entire area appears uniform, then only on 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. 37. Soil Improvement Measures: the soil shall then be improved according to the recommendations made by the testing 38. 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 operations unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheet. 39. Planting method: Consul the Planting Detail(s) shown on this plan.

40. Mulching: Apply two—inch thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan). 41. Groundcover Establishment: the remaining disturbed area between seedling planting sites shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre.

42. Mowing: No mowing shall be allowed in any planting area. 43. 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 of planting.

44. Source of Seedlings: state name, address, and phone number of nursery or supplier. Four—Year Management Plan for Re/Afforestation Areas

Field check the re—afforestation area according to the following schedule: Year 1: 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 minimum) Year 2—3: Reinforcement planting is needed (See Note 2)

Survival check once annually (September-November)

Control of undesirable vegetation if needed (1 x in May and 1 x in August minimum) Year 4: 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 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 1 through 3 will be done on an as needed basis. Special return operations or recommendations will be conducted on an as needed basis. When off-site woodland conservation is proposed:

45. 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 TCP2 plan and recorded as an off-site easement in the land records of Prince George's County. Proof of recordation of the off-site conservation shall be provided to the M-NCPPC, Planning Department prior to the issuance of any permit for the associated plan. -When the use of fee-in-lieu is proposed:

46. All required fee in lieu payments shall be made to the Woodland Conservation Fund. Proof of deposit shall be provided prior to issuance of any permits related to this TCP2 unless the project is phased. Phased projects shall pay the fee-in-lieu amount for each phase prior to the issuance of any permit for that phase and shown in the -fee-in-lieu breckdown on this ICP2.

When woodlands and/or specimen, historic or champion trees are to remain: 47. 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 proper documentation has been completed per the handout "Cuidance for Prince George's County Property Owners, Preservation of Woodland 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 permitted. 48. If a tree or portion thereof are in imminent danger of striking a structure, parking area, or other high use areas 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.

49. 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. 50. 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 plant may be cut near the ground 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 decomposition. 51. The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invasive, noxious, or non-notive 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 52. 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.

Protection of Reforestation and Afforestation Areas by Individual Homeowners 53. Reforestation fencing and signage shall remain in place in accordance with the approved Type 2 Tree Conservation

54. Reforestation areas shall not be mowed; however, the management of competing vegetation and removal of naxious, invasive, and non-native vegetation around individual trees is acceptable.

PRESERVATION APEA

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PRICHIBITED

TREES FOR YOUR

1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED 2. SIGNS SHOULD BE PROPERLY MAINTAINED.

3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS

4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION

5. LOCATE SIGNS APPROXIMATELY EVERY SO FEET ALONG FENCING 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOYING

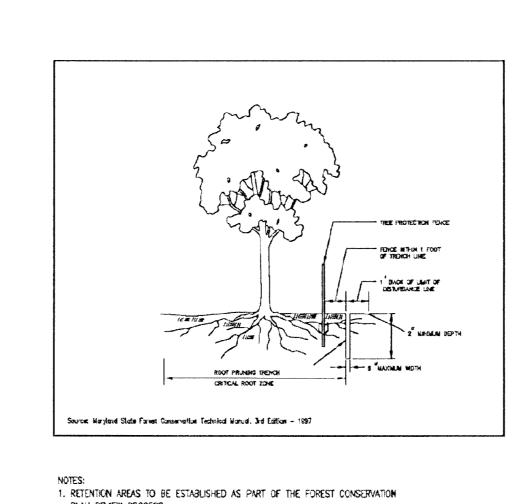
STAKE OUT OF LO.D., AND REMAIN IN PLACE IN PERPETUITY.

WOODLAND PRESERVATION AREA SIGN

WN. DEPTH 18"

4"x4" PRESSURE

TREATED POST



PLAN REVIEW PROCESS 2. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCHING. 3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED. 4. TRENCH SHOULD BE IMMEDIALITEY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH 5. ROOTS SHOULD BE CLEANLY OUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE

4"x4" PRESSURE

TREATED POST

3" GALV. RING

____ THREAD NAILS

WOODLAND

PROJECT

DISTURBANCE IN SELDLINGS.

PROHIB TED

TREES FOR YOUR PUTURE

2. SIGNS SHOULD BE PROPERLY MAINTAINED.
3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS.
4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION

5. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.

STAKE OUT OF LOLD, AND REMAIN IN PLACE IN PERPETUITY

7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING

5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE.

REFORESTATION AREA SIGN

PERSONNEL FROM ALL DIRECTIONS

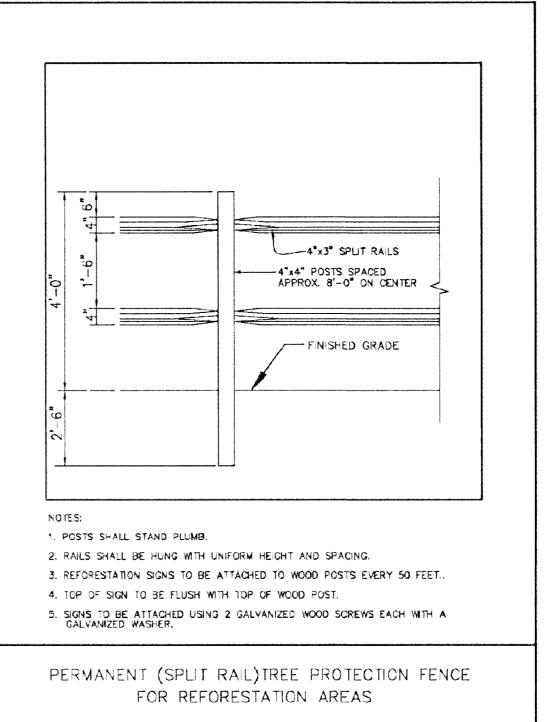
MIN. DEPTI 18"

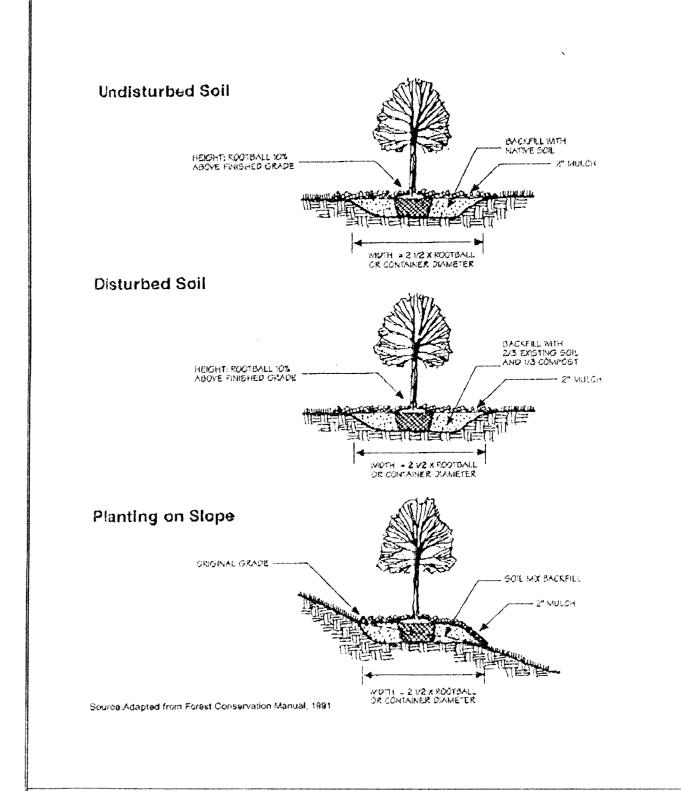
ROOT PRUNING

August 2010

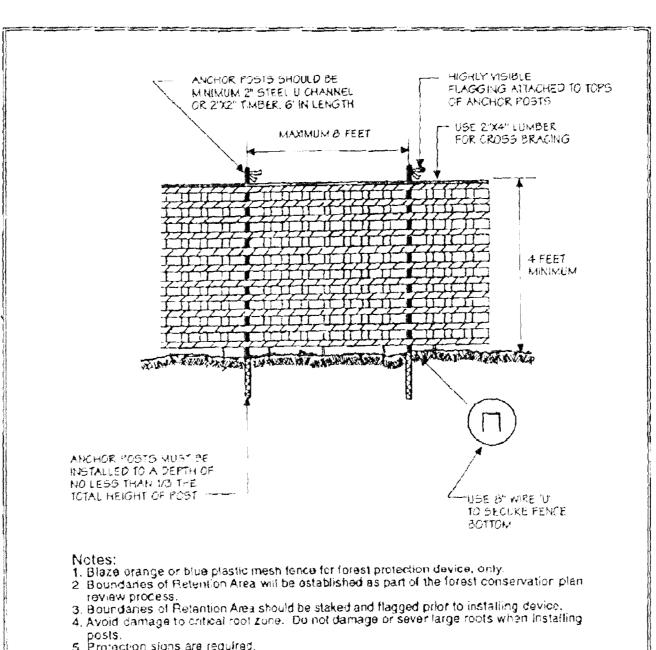
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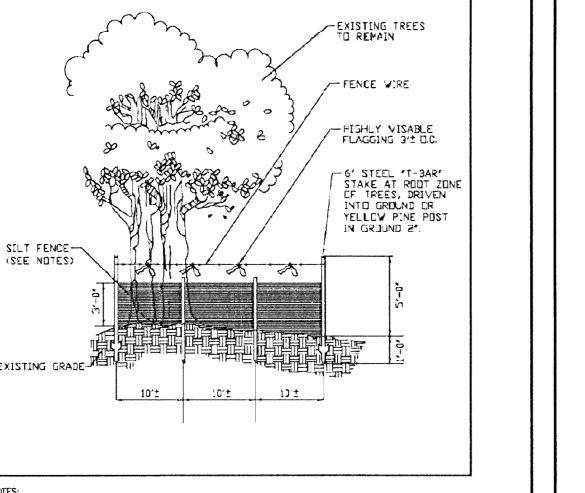
Container Grown and B&B Planting Techniques



5. Protection signs are required. Device should be maintained throughout construction.

Source: Adapted from Prince George's County, Maryland: Woodland Conservation Manual and Forest Conservation Manual, 1991

Plastic Mesh Tree Protection Fence Figure the same the same transfer of the same transfer of



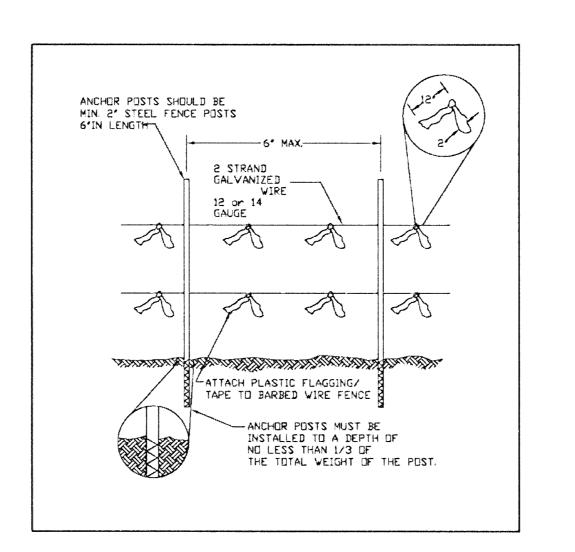
1. SILT FENCE TO BE HEELED INTO SOIL. 2. WIRE, SNOW FENCE, ETC. FOR TREE PROTECTION ONLY 3. BOUNDARIES OF RETENTION AREA WILL BE ESTABLISHED AS PART OF THE TREE CONSERVATION PLAN REVIEW PROCESS 4. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE. 5. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.

6. DEVICE SHOULD BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.

7. PROTECTION SIGNS ARE ALSO REQUIRED.

8. LOCATE FENCE OUTSIDE THE CRITICAL ROCT ZONE

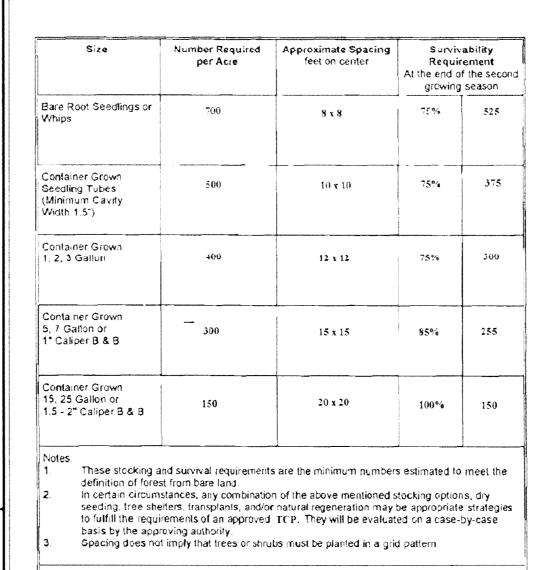
TYPE 4 (TEMPORARY) TREE PROTECTION FENCE COMBINATION SILT FENCE & TREE PROTECTION



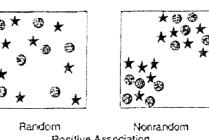
NOTES: (MUST BE INCLUDED WITH DETAIL) RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS, BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED

TYPE 2 (TEMPORARY) TREE PROTECTION FENCE FOR REFORESTATION AREAS

August 2010

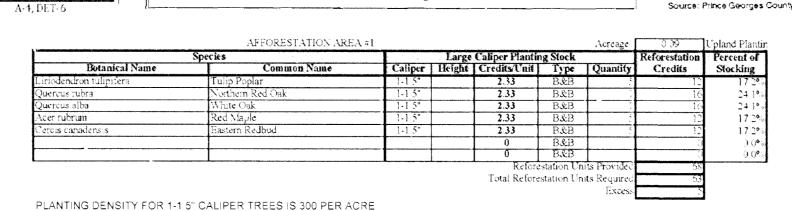


Typical Forest Tree Distribution Patterns



Negative Association Positive Association SPECIES 1 SPECIES 2

Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species group:. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chose site that mimic natural Source: Prince Georges County Woodland Conservation Manual.



Site Stocking

HIS BLOCK IS FOR DEFICIAL USE ONLY QR label certifies that this plan meets conditions of final approval by the Planning Board, its designee the District Council. M-NCPPC **APPROVAL** PROJECT NAME: AVONDALE OVERLOOK PROJECT NUMBER: TCP2-124-06

For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet

Revision numbers must be included in the Project Number

02 Revision

04 Revision

05 Revision

QUALIFIED PROFESSIONAL CERTIFICATION This complies with the current requirements of Subtitle 25 and the Environmental Technical Manual. John P. Markovich JM Forestry Services, LLC 11552 Timberbrook Drive Waldorf, MD 20601 Phone: 301-645-4977

jpmarkovich@comcast.net

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL Katina Shoulars 2/2/2011 DSP N/A05114 megnk Reise 9/9/16 05114-02

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REVS. PER AHJ COMMENTS PER M-NCPP COMMENTS PER M-NCPP(COMMENTS PER M-NCPP 08/23/16 COMMENTS PER M-NCPPO COMMENTS



CONSTRUCTION

CONSERVATION

PLAN - TYPE 2 AVONDALE

LOCATION OF SITE 2350 QUEENS CHAPEL RD PRINCE GEORGE'S COUNTY

HYATTSVILLE, MARYLAND

MD@BohlerEng.com

OVERLOOK

BOHLER ENGINEERING 16701 MELFORD BLVD, SUITE 310 BOWIE, MARYLAND 20715 Phone: (301) 809-4500

TREE CONSERVATION PLAN NOTES AND DETAILS HEET NUMBER

OF 2 REVISION 6

HE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PRO SCORE PRIOR TO THE INITIATION OF CONSTRUCTION SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE SPECIFICATIONS OR APPLICABLE CODES IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD

PTANCE OF FULL RESPONS BUITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF THE WORK AS DEFINED BY THE DRAWINGS A FALELDIAPPDATALIOCAL TEMPIACPUBLISH 18648 MB14268CTC4 DWG PRINTED BY PROTHFELD 1917 16 😩 3 33 PM LAST SAIVED BY PROTHFELD