

PLANTING MANAGEMENT PLAN

- The site shall be planted with trees that are either container grown in a 5 or 7 gallon container or 1" caliper balled and burlapped trees. They shall be planted as indicated on the Reforestation Planting Schedule and according to the methods outlined in this TCP II. The area to be planted is 0.44 acres. The trees in the reforestation areas will be planted with a spacing of 12' x 12'. Deciduous trees will occupy 71% of reforestation areas and evergreen trees will occupy the remaining 29%.
- 2. All planting stock shall be equal to or better than the latest standard set by the American Nursery and Landscaper Association (ANLA).
- Soil tests shall be done prior to planting (see Standard TCP2 Notes). If the soil needs to be improved to meet optimum growing conditions then it shall be improved according to the recommendations made by the testing company.
- If the soil is contaminated with oil products, concentrated soluble salts, ferrous iron, soluble aluminum, soluble manganese or herbicides then the contaminated soil must be removed and a clean loamy soil shall replace it. Then soil tests shall be conducted on the new soil to make sure that it meets optimum standards for tree growth.
- During planting, all areas shall be kept neat and clean, and precautions shall be taken to avoid damage to existing trees.
- Planting stock source shall be from within the geographic region suited for growth for this area.
- All trees and seedlings shall be planted by hand.
- 8. The trees may be planted from September to May except when the ground is
- Upon completion, all debris and waste material resulting from planting operations shall be removed from the project and the area cleaned up.
- 10. After the trees have been planted they shall be inspected at least three times during the year for competing vegetation. If the competing vegetation is affecting the growth of the trees then it shall be removed. This will reduce damage from rodents and give the trees more room to grow.
- 11. All temporary tree protection fencing shall be removed at the completion of all construction and at the approval of the DPW & T inspector. All reforestation fencing and signs shall remain in place in accordance with the approved Type II Tree Conservation Plan.
- 12. The trees shall be checked on a weekly basis during the summer and fall to determine if watering is necessary. If watering is necessary then the trees shall be watered until their root zone has been soaked.
- 13. All stakes, wires, and other material required for planting the trees shall be removed one year after the trees have been planted to allow continued growth unless directed to do otherwise by the DPW & T inspector.
- 14. Soil tests shall be taken in the spring or summer of each year to determine if the trees need to be fertilized. If fertilizer is needed then a slow release type shall be used to amend to soil. The manufacturer's instructions shall be followed.
- 15. The trees shall be inspected every two weeks during the growing season for pest or mechanical injury. Depending on the type of injury, steps shall be taken to minimize the injury to the trees.
- 16. Every fall a survival check shall be made of the trees. If the survival rate falls below 75% then supplemental planting must be done the following spring.
- 17. If required by Maryland National Capital Park and Planning Commission (MNCPPC), a reforestation bond in the amount of \$.30 per square foot will be posted prior to the issuance of any permits for an area impacted by that permit or to satisfy off-site reforestation requirements.
- 18. The term of this plan is five years.
- 19. The owner of the property shall be responsible for all tree maintenance.

STANDARD TYPE 2 TREE CONSERVATION PLAN NOTES **GENERAL NOTES**

- This plan is submitted to fulfill the woodland conservation requirements for a permit. If the permit expires, then this TCP2 also expires and is no longer valid.
- 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
- 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 appropriated 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
- 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 the <u>Developed</u> Tier and is zoned <u>R-55</u>.
- The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.
- 8. The property is adjacent to Annapolis Road which is classified as an arterial roadway.
- 9. This plan is/is not grandfathered under CB-27-2010, Section 25-117 (g).

When preservation or retention of existing woodlands is proposed:

Tree Preservation and Retention Notes

- 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.
- Tree and woodland conservation methods such as root pruning shall be conducted as noted on this

ADDITIONAL NOTES

- 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 device is a violation
- 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

- 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.
- 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 damage.
- 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 innibit sprou
- 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-A30 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.

When afforestation/reforestation is proposed:

Afforestation and Reforestation Notes

- a. 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
- The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit. Seedling planting is to occur from March through November 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 detail maintenance schedule is provided.
- If planting cannot occur do 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 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 mowed; however, the management of competing vegetation around individual trees and 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 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
- The county inspector shall be notified prior to soil preparation or initiation of any tree planting on
- 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 extension.

Planting Specification Notes

- Quantity: (See Reforestation Planting Schedule)
- 2. Type: (See Reforestation Planting Schedule)
- 3. Plant quality Standards: The plants selected shall be healthy and sturdy representatives of their
 - 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 material and shall be maintained through periodic watering, until the time of planting.

- Timing of Planting: 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 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.
- Spacing: See Reforestation Planting Schedule and/or 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
- 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 corrections of soil texture, pH, magnesium, phosphorus, potassium, calcium
- 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 operations unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheel
- Planting method: Consult the Planting Detail(s) shown on this plan.
- 10. Mulching: Apply two-inch thick layer of woodchips 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 sites shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre.
- 12. Mowing: No mowing shall be allowed in any planting area.
- Survival Check for Bond Release: The reforestation 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 trees to reach the required number at time of planting.
- 14. Source of Trees: To Be Determined.

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) Control of undesirable vegetation if needed (1 x in May and 1 x in August min.)

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 min.)

Reinforcement Planting II needed. (See Note 2) Year 4: Survival check (September – November)

- 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
- Reinforcement Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 85% of the number originally planted. If a particular species suffers unusually high mortality, replace with an alternative plant type.

When the use of fee-in-lieu is proposed:

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 breakdown on this TCP2.

When Virginia pines are present within 40 feet of the limits of disturbance in a preservation area:

- The subject property contains Virginia pines (Pinus virginiana) that are subject to wind throw. All Virginia pines greater than 6 inches in diameter within 40 feet of the final proposed limit of disturbance or the boundary of the property shall be cut down by hand during the clearing of the
- After the Virginia pines have been removed, the contractor responsible for implementation of this TCP2 shall submit an evaluation of the stocking levels for the residual stand, management techniques to be applied to the residual stand, and supplemental planting requirements to the M-NCPPC Planning Department. This evaluation shall be submitted prior to the issuance of the first building permit to ensure that all high risk trees have been removed. A planting schedule and/or details for the management of natural regeneration to fully restock the site must be shown on the

POST DEVELOPMENT NOTES

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

If the developer or builder no longer has an interest in the property and the new owner desires to remove a hazardous free or portion thereof, the new owner shall obtain a written statement from a Certified Arborist or Licensed Tree Expert indentifying the hazardous condition and the proposed corrective measures prior to having the work conducted. After proper documentation has been completed per the handout "Guidance for Price 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.

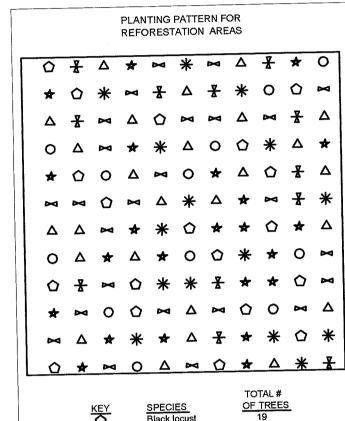
If a tree or portions thereof are in imminent danger of striking a structure, parking area, or other high use area and may result in personal injury or property damage then the certification is not required and the permitee shall take corrective action immediately. The condition of the area shall be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

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.

- 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 chainsaw). These plants may be cut near the ground and material less than two inches diameter may be removed for 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.
- The use of broadcast spraying of herbicides is not permitted. However, the use of herbicides to discourage re-sprouting of invesive, 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.

Protection of Reforestation and Afforestation Areas by Individual Homeowners

- Reforestation fencing and signage shall remain in place in accordance with the approved Type 2 Tree Conservation Plan.
- Reforestation areas shall not be mowed; however, the management of competing vegetation and removal of noxious, invasive, and non-native vegetation around individual trees is acceptable.



Northern Red Oak

Lobiolly Pine

American Holly

	REFO	RESTATION PLANT	ING SCH			1
SPECIES SIZE		SAPLINGS PER REFORESTATION AREA	SPACING	SURVIVABILITY REQUIREMENT AT THE END OF THE SECOND GROWING SEASON		TOTAL TREES REQUIRED
- OI LOILO		Reforestation Area 1 = 14	12' x 12'	75%	11	19
Black Locust Robinia pseudoacacia	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 4 = 2	12' x 12'	75%	2	19
		Reforestation Area 5 = 3	12' x 12'	75%	2	
Opinia pseudoacacia		Reforestation Area 1 = 19	12' x 12'	75%	14	26
Northern Red Oak Quercus rubra	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 3 = 1	12' x 12'	75%	1	∠0
		Reforestation Area 4 = 3	12' x 12'	75%	2	
		Reforestation Area 5 = 3	12' x 12'	75%	2	
Eastern Redbud Cercis canadensis	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 1 = 8	12' x 12'	75%	6	40
		Reforestation Area 3 = 1	12' x 12'	75%	1	12
		Reforestation Area 4 = 1	12' x 12'	75%	1	
		Reforestation Area 5 = 2	12' x 12'	75%	2	
Loblolly Pine Pinus taeda	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 1 = 19	12' x 12'	75%	14	
		Reforestation Area 4 = 2	12' x 12'	75%	2	23
		Reforestation Area 5 = 2	12' x 12'	75%	2.	
		Reforestation Area 1 = 19	12' x 12'	75%	14	25
Blackgum Nyssa sylvatica	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 2 = 1	12' x 12'	75%	1	25
		Reforestation Area 4 = 2	12' x 12'	75%	2	
		Reforestation Area 5 = 3	12' x 12'	75%	2	
		Reforestation Area 1 = 9	12' x 12'	75%	7	1.5
American Holly llex opaca	Container Grown 5, 7 Gal. or 1" Cal. B & B	Reforestation Area 2 = 1	12' x 12'	75%	1	15
		Reforestation Area 4 = 2	12' x 12'	75%	1	
		Reforestation Area 5 = 3	12' x 12'	75%	2	
		Reforestation Area 1 = 9	12' x 12'	75%	7	
D	Container Grown 5, 7 Gal.	Reforestation Area 4 = 2	12' x 12'	75%	2	13
Persimmon Diospyros virginiana	or 1" Cal. B & B	Reforestation Area 5 = 2	12' x 12'	75%	2	



TOTAL TREES

QUALIFIED PROFESSIONAL CERTIFICATION This complies with the current requirements of Subtitle 25 and the Woodland and Tuck's Consulting Forestry Service, LLC 8419 Poplar Hill Drive Clinton, MD 20735

CTuck 456@gmail.com

Prince George's Planning Department Environmental Planning Section APPROVAL

TREE CONSERVATION PLAN TCP2 - 001- 08

SHEET NO. 2 OF 3

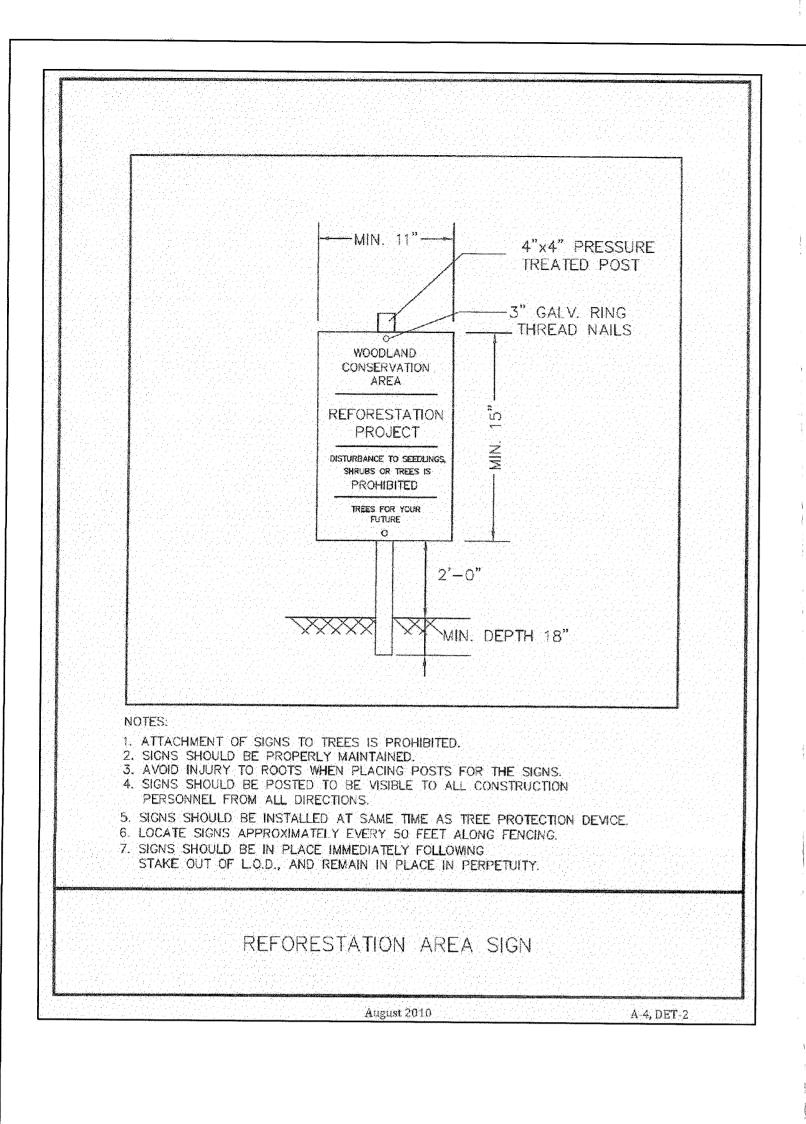
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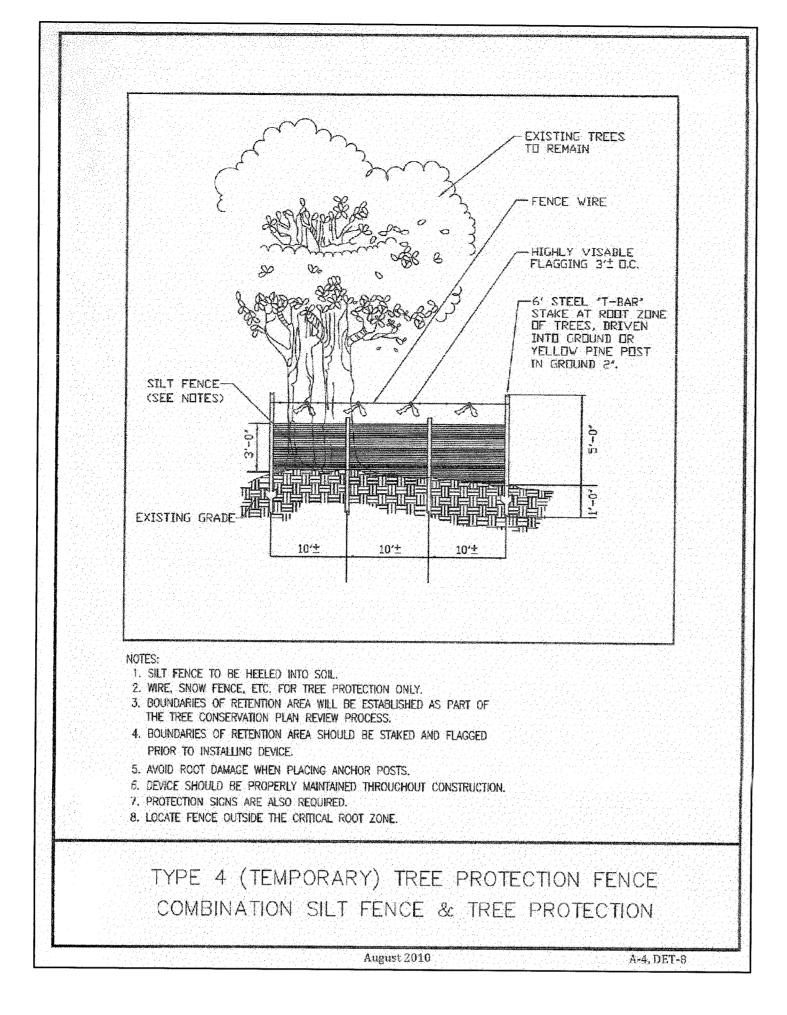
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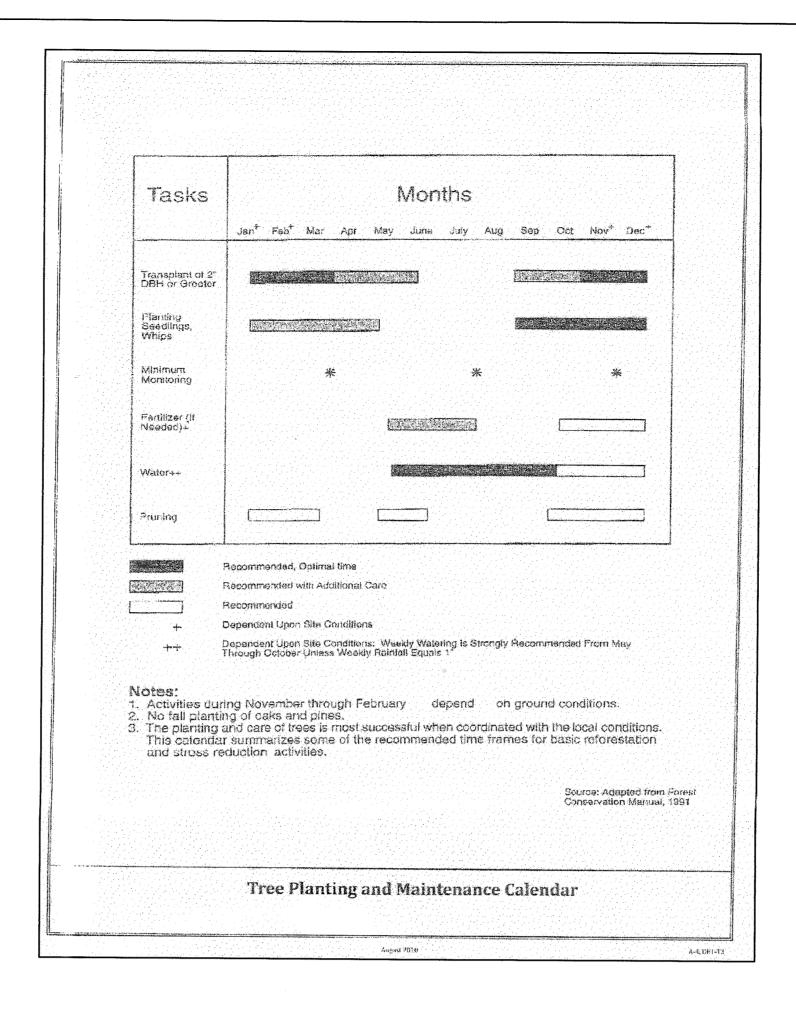
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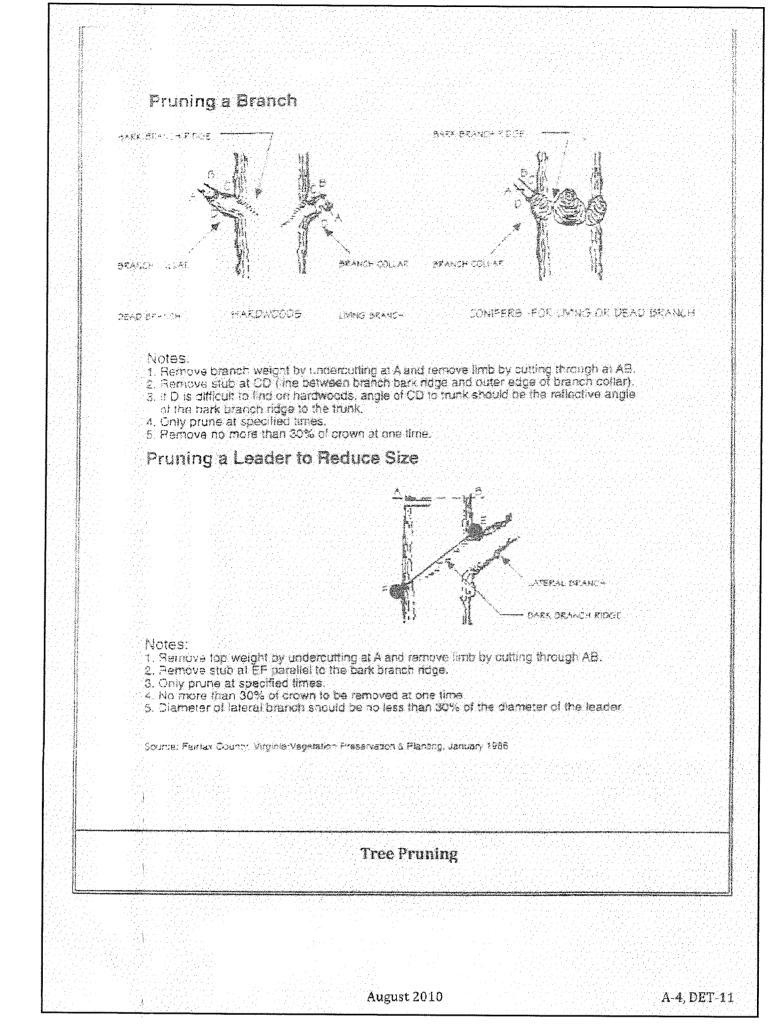
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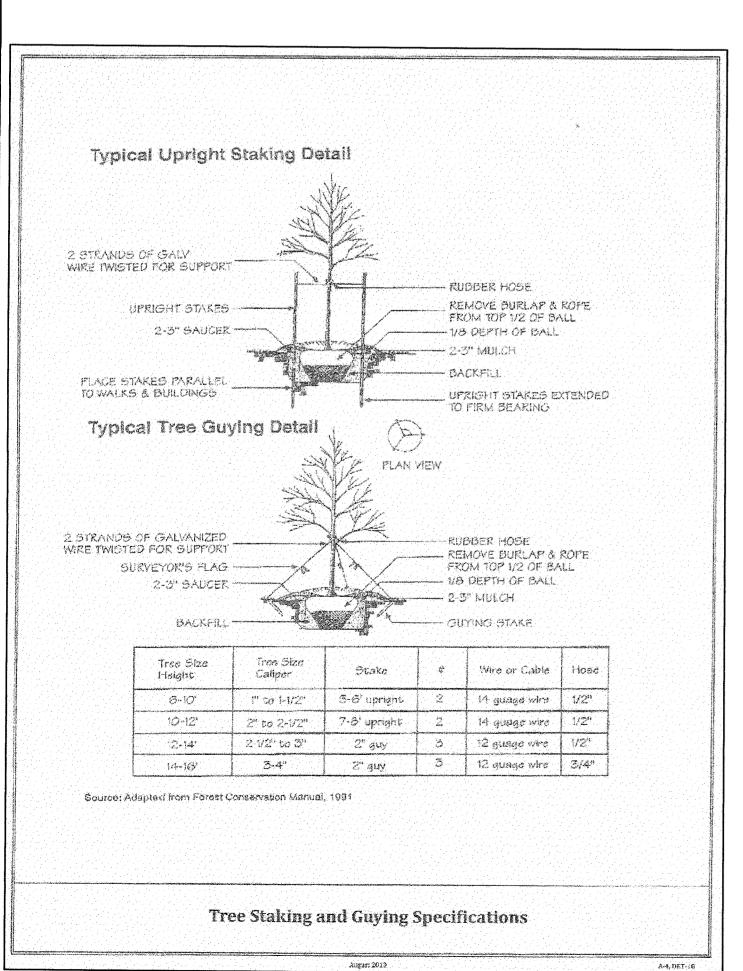
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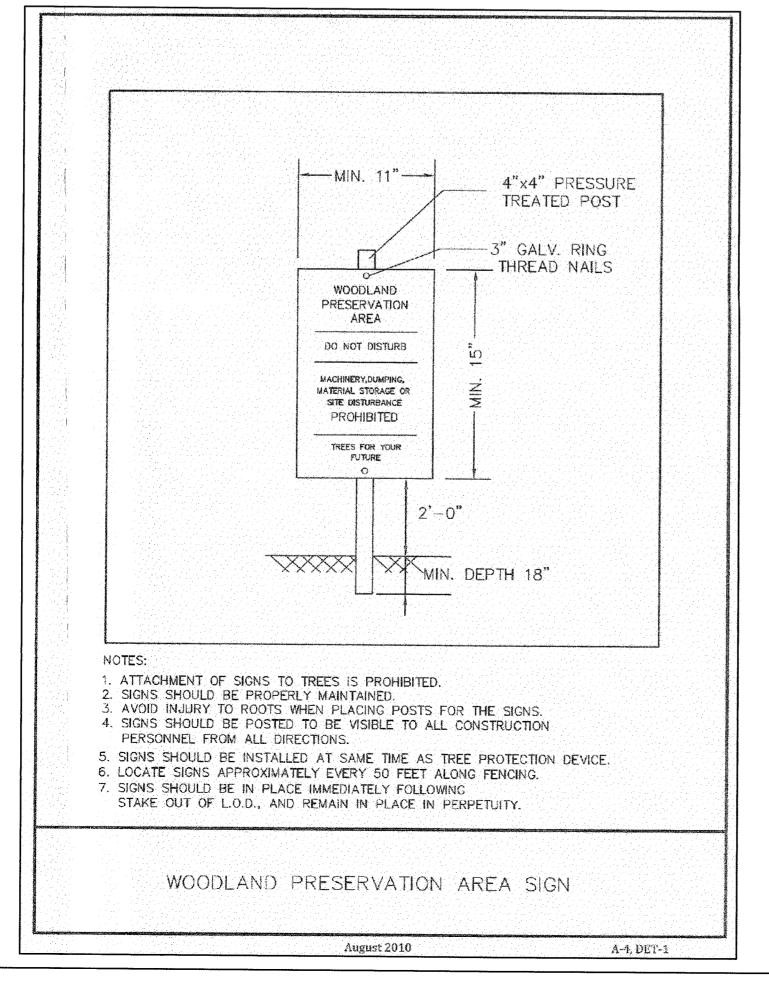


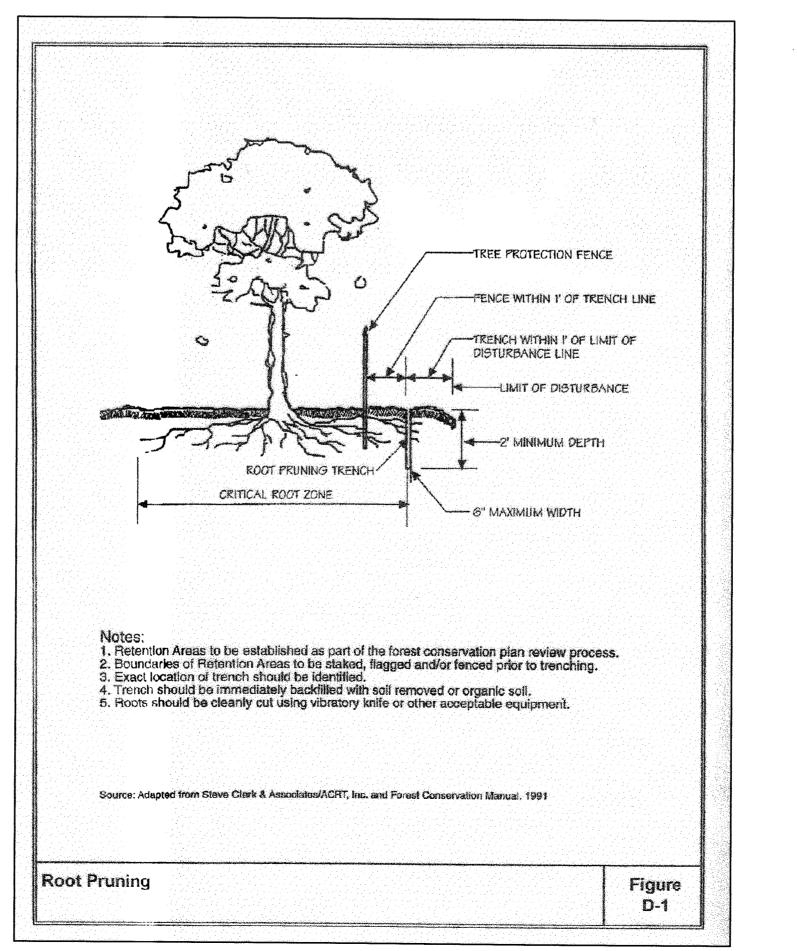


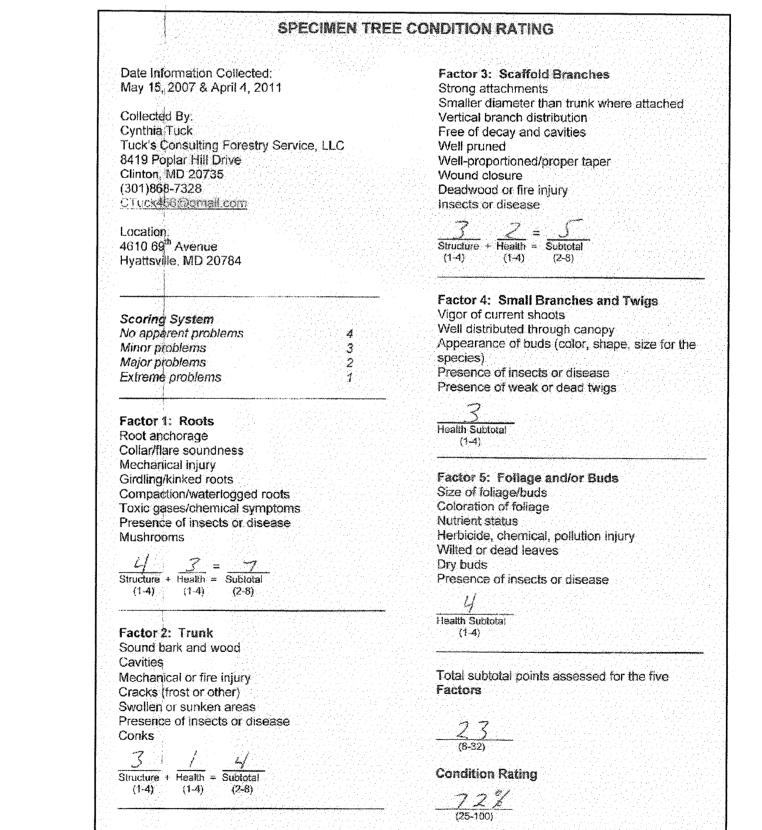














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Signed: (3	3 H. T		Date: 5/5/11

Tuck's Consulting Forestry Service, LLC

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