

Standard Type 2 Tree Conservation Plan Notes

- This plan is submitted to fulfill the woodland conservation requirements for TCP2-044-2020. If TCP2-044-2020 expires, then this TCP2 also expires and is no longer valid.
- Cutting or clearing woodlands 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 Permitting, Inspections and Enforcement (DPIE), 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.
- 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 Rural Tier (ESA-3) and is Zoned O-S.
- The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.
- The site is not adjacent to a roadway classified as arterial or greater.
- This plan is not grandfathered by C.B27-2010, Section 25-119(g).

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 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 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 TCP2 installation. These signs must remain in perpetuity.

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.)* Seeding 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Result of annual survival check 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 Plant Schedule)
- Type: (See Plant Schedule)
- 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).
 - 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.
- 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.
- 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.
- Seeding 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 begin.
- 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 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.
- 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 sheet.
- Planting method: Consult the Planting Detail(s) shown on this plan.
- Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan).

When off-site woodland conservation is proposed:

- 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. In accordance with Subtitle 25, Division 2, Sec. 25-122. Methods for Meeting the Woodland and Wildlife Conservation Requirements, if off-site woodland conservation is approved to meet the requirements, then the following locations shall be considered in the order listed: within the same eight-digit sub-watershed, within the same watershed, within the same river basin, within the same growth policy tier, or within Prince George's County. Applicants shall demonstrate to the Planning Director or designee due diligence in seeking out opportunities for off-site woodland conservation locations following these priorities. All woodland conservation is required to be met within Prince George's County.

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 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 "Guidance 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.
 - 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 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 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 chain saw). These plants 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.
 - 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.
- 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.

Individual TCP2 with Previously Approved TCP1 or TCP2
Woodland Conservation Worksheet for Prince George's County

SECTION I - Establishing Site Information (Enter acres for each zone)

	O-S	
1 Zone:	5.30	
2 Gross Tract:	0.00	
3 Floodplain:	0.00	
4 Previously Dedicated Land:	5.30	0.00 0.00
5 Net Tract (NTA):		

Property Description or Subdivision Name: Cedars of Nottingham, Lot 9 (16912 Tanyard Rd, Upper Marlboro)
Current TCP Number: TCP2-044-2020 Rev # 0
Previous TCP Number: TCP1-035-04 Rev # 0

Site subject to the 2010 Ordinance (Y or N) N
Is this a priority funding area? (Y or N) N

SECTION II - Determining Woodland Conservation Requirements (Enter acres in corresponding column)

	Net tract	Floodplain
9 Woodland Conservation Calculations:		
11 Acreage of Existing Woodland	44.91%	2.38
12 Woodland Conservation Required for per TCP1 or TCP2	0.00	0.00
13 Area of Woodland Cleared per previous TCP1 or TCP2	0.00	0.00
14 Area of Woodland Cleared per current TCP2	0.00	0.00
15 Area of Woodland above WCT not cleared by previous TCP1 or TCP2	0.00	0.00
16 Additional Woodland Cleared by current TCP2	0.00	0.00
17 Does the TCP1 show 2:1 replacement?	Y	0.00
18 Clearing above WCT (1/4:1 Replacement)	0.00	Replacement required = 0.00
19 Clearing below WCT (2:1 Replacement)	0.00	Replacement required = 0.00
20 Total Woodland Conservation Required :	2.38	

SECTION III-Meeting the Requirement (Enter acres in corresponding column)

	(acres)	Bond amount: \$	Fee amount: \$
21 Woodland Conservation Provided:	0.09		
22 Woodland Preservation	1.59	20,778.12	
23 Reforestation / Afforestation	0.00		
24 Natural Regeneration	0.00		
25 Landscape Credits	0.70		9,147.60
26 Area approved for fee-in-lieu	0.00		
27 Credits Received for Off-site Mitigation on another property	0.00		
28 Off-site Mitigation provided on this property	0.00		
29 Total Woodland Conservation Provided	2.38		
29 Area of net tract woodland not cleared	0.09	acres	
30 Woodland retained not part of requirements:	0.00	acres	

31 Prepared by: _____ Date: _____
32 Qualifications: _____

Prince George's County Planning Department, M-NCPPC
Environmental Planning Section
TREE CONSERVATION PLAN APPROVAL

TCP2-044-2020

00 Revision	Approved by	Date	DRD #	Reason for Revision
01 Revision	Suzanne G. Nickla	2/25/2021	N/A	N/A
02 Revision				
03 Revision				
04 Revision				
05 Revision				

QUALIFIED PROFESSIONAL CERTIFICATION
This complies with the current requirements of Subtitle 25 and the Environmental Technical Manual

Signed: John P. Markovich Date: 2/25/2021

John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601
Phone: 301-751-4888
Email: JPMarkovich@comcast.net

STATE OF MARYLAND
COMMISSION ON FORESTRY
BOARD OF FORESTERS

I, Sheree R. Goodman hereby acknowledge that I am aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

S.R. Goodman 11/15/2020
Sheree R. Goodman Date

Legend

- Proposed Boundary Fence
- Proposed Structures
- Proposed Topographic Contours
- Proposed LOD (Limit of Disturbance)
- Proposed Stormwater Management
- Proposed Non-Rooftop Runoff Pathway
- Easements Assorted
- Property Boundary
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- BRL (Building Restriction Line)
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AFFORESTATION AREA #1

Species	Common Name	Caliper	Type	Quantity	Reforestation Credits	Percent of Stocking
Pinus taeda	Loblolly Pine	Seedling	1	Seedling 425	425	34.7%
Quercus palustris	Pin Oak	Seedling	1	Seedling 200	200	16.3%
Liriodendron tulipifera	Tulip Poplar	Seedling	1	Seedling 200	200	16.3%
Platanus occidentalis	Sycamore	Seedling	1	Seedling 200	200	16.3%
Cercis canadensis	Redbud	Seedling	1	Seedling 200	200	16.3%

** Species that may be substituted include: Willow
Oak, Southern Red Oak, Red Maple, Black Cherry or Black Locust, Dogwood

Reforestation Units Provided
Total Reforestation Units Required 1,211
Excess 14

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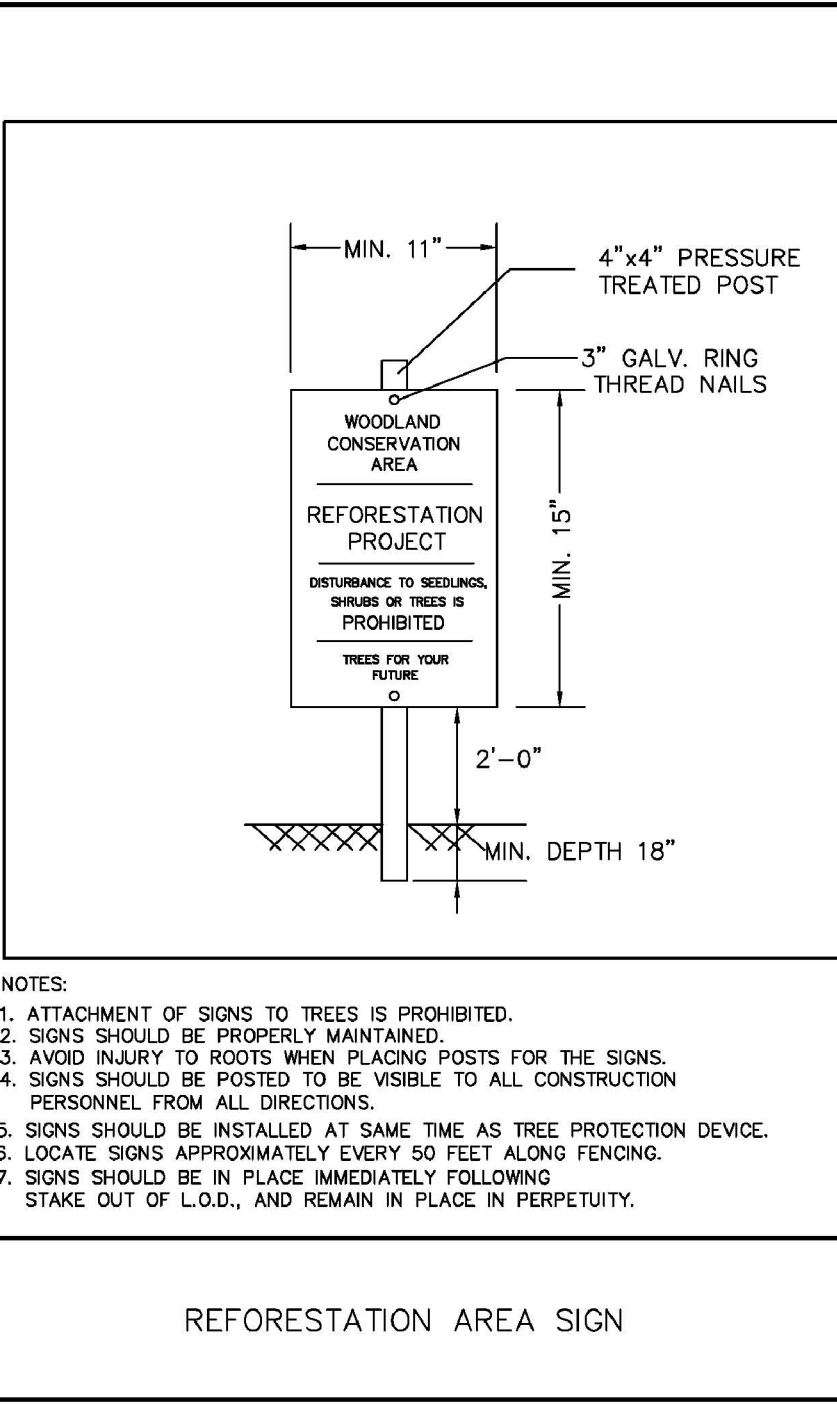
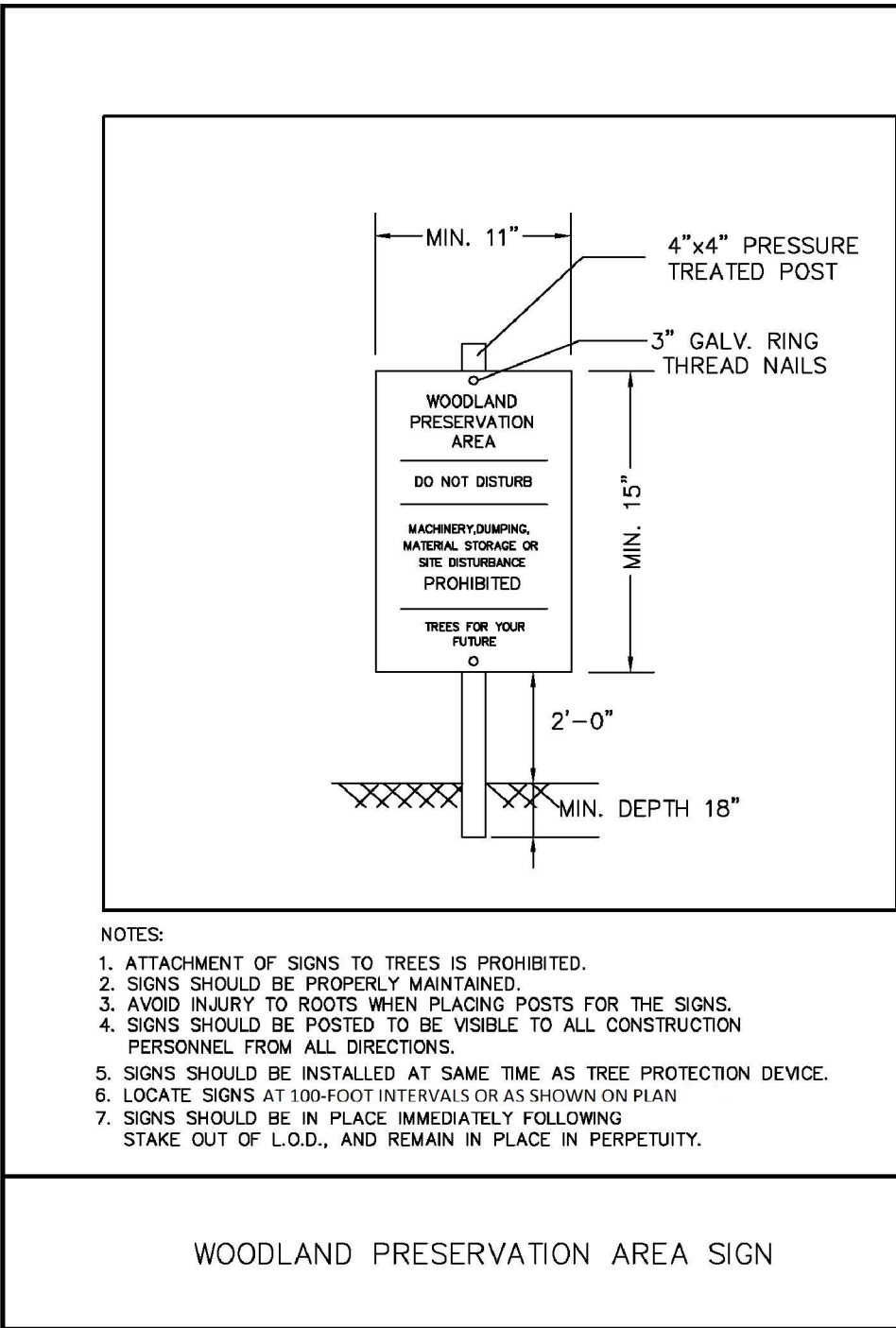
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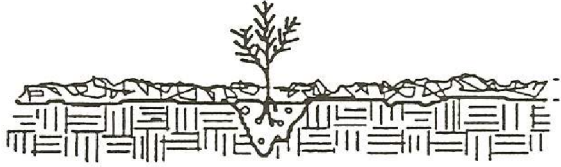
- Proposed Boundary Fence
- Proposed Structures
- Proposed Topographic Contours
- Proposed LOD (Limit of Disturbance)
- Proposed Stormwater Management
- Proposed Non-Rooftop Runoff Pathway
- Easements Assorted
- Property Boundary
- Property Boundary Adjacent
- BRL (Building Restriction Line)
- Treeline - Existing
- 2-foot Topographic Contours
- WPA (Woodland Preservation Area)
- WRA (Reforestation Area)
- WRA (Reforestation Signs)
- PPF (Permanent Protective Fence)

Legend

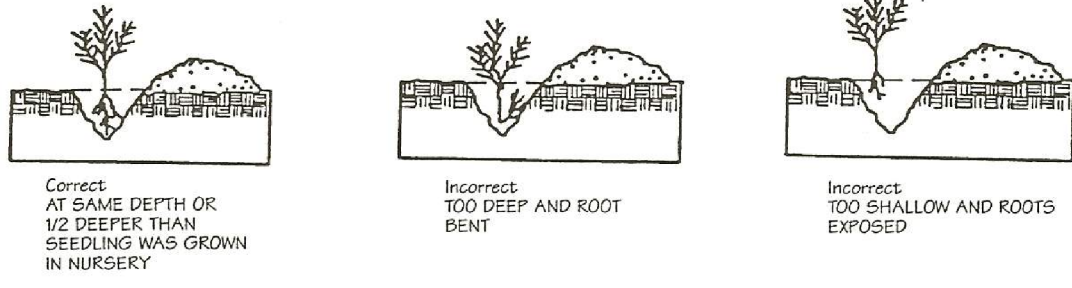
- Proposed Boundary Fence
- Proposed Structures
- Proposed Topographic Contours
- Proposed LOD (Limit of Disturbance)
- Proposed Stormwater Management
- Proposed Non-Rooftop Runoff Pathway
- Easements



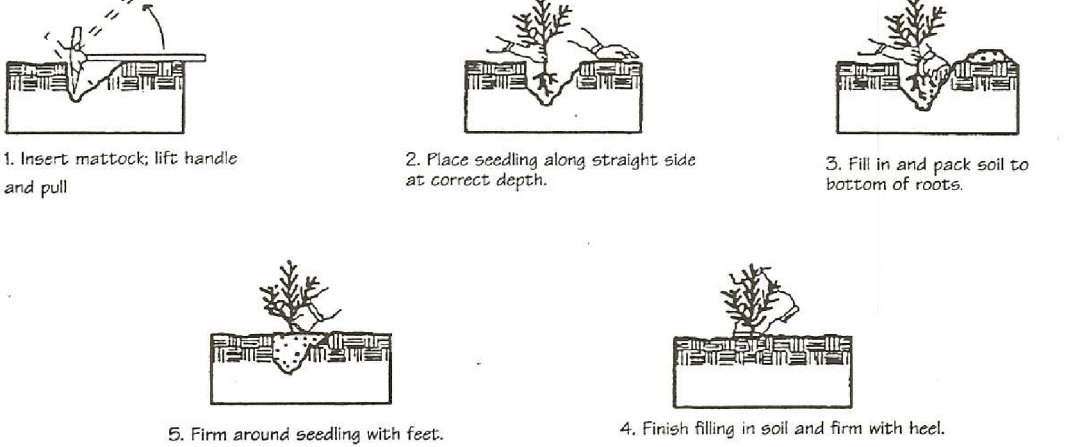
Seedling and Whip Planting



Correct and Incorrect Planting Depth



Mattock Planting



Source: Adapted from Forest Conservation Manual, 1991

Size	Number Required per Acre	Approximate Spacing feet on center	Survivability Requirement At the end of the second growing season	
Bare Root Seedlings or Whips	700	8 x 8	75%	525
Container Grown Seedling Tubes (Minimum Cavity Width 1.5")	500	10 x 10	75%	375
Container Grown 1, 2, 3 Gallon	400	12 x 12	75%	300
Container Grown 5, 7 Gallon or 1" Caliper B & B	300	15 x 15	85%	255
Container Grown 15, 25 Gallon or 1.5 - 2" Caliper B & B	150	20 x 20	100%	150

Notes:

- These stocking and survival requirements are the minimum numbers estimated to meet the definition of forest from bare land.
- 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

TCP-28.Planting Distribution Patterns

Typical Forest Tree Distribution Patterns

Note: Naturally occurring populations of trees tend to be found in informal groupings. A cluster of trees is really a mosaic of different species groups. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chosen site that mimic natural patterns.

Source: Prince Georges County Woodland Conservation Manual.

Aggregate Distribution Drift

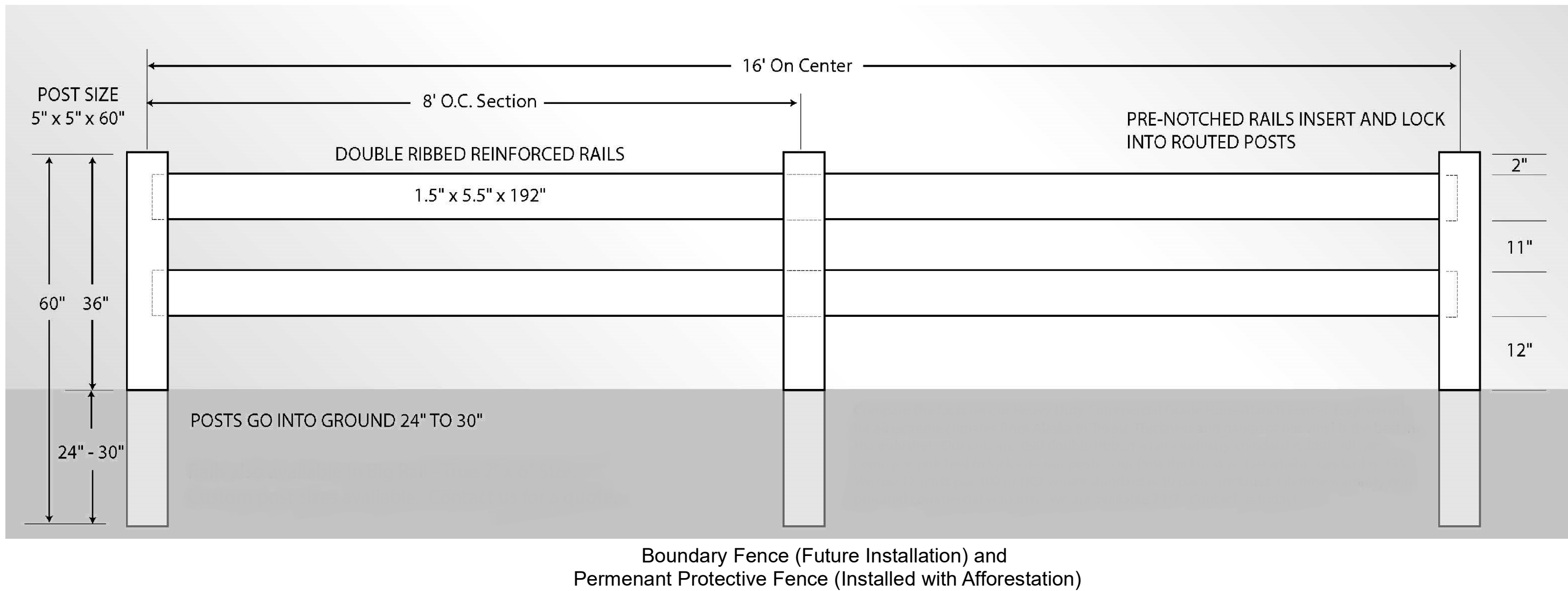
Note: When used, plant cluster type groupings that taper or feather out along the edges. Clusters often appear as elongated or tear drop shapes.

Source: EQR, Inc.

Mixing Transplant Stock

Source: Adapted from Forest Conservation Manual, 1991

Planting Distribution Patterns



I, Sheree R. Goodman hereby acknowledge that I am aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

S.R. Goodman 11/15/2020
Sheree R. Goodman Date

QUALIFIED PROFESSIONAL CERTIFICATION

This complies with the current requirements of Subtitle 25 and the Environmental Technical Manual

Signed: John P. Markovich Date: 2/25/2021

John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601
Phone: 301-751-4888
Email: JPMarkovich@comcast.net

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL			
TCP2-044-2020			
Approved by	Date	DRD #	Reason for Revision
00 Revision	<u>Suzanne J. Nickle</u>	2/25/2021	N/A
01 Revision			
02 Revision			
03 Revision			
04 Revision			
05 Revision			

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APPLICANT / DEVELOPER

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11237 Joycelon Drive
Upper Marlboro, MD 20774
Phone: 301-910-1345

Type 2 Tree Conservation Plan
TCP2-044-2020

Cedars of Nottingham, Lot 9
16912 Tanyard Road
Upper Marlboro, MD 20772
4th ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

REVISIONS

DWN	Checked
JPM	JPM

Scale

1" = 50'

Project No.

20-030

Sheet No.

2 of 2