

### GENERAL NOTES

will be discussed in detail.

- 1. This plan is submitted to fulfill the woodland conservation requirements for Limited DSP-18033.
- 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.
- 3. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspection and Enforcement, shall be contracted prior to the start of any work on the site to conduct a
- 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.

pre-construction meeting where implementation of woodland conservation measures shown on this plan

- 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 Environmental Strategy Area, ESA-2 and is zoned R-E & R-R.
- 7. The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.
- 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 25-177(g).

#### WOODLAND PRESERVATION AND RETENTION NOTES

dying, or hazardous may be removed.

- 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 the commencement

of clearing and grading of the site and shall remain in place until the bond is released for the project.

- Failure to install and maintain temporary or permanent tree protective devices is a violation of this TCP2. 14. 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 15. The developer and/or builder is responsible for the complete preservation of all forested areas shown
- 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 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.

on the approved plan to remain undisturbed. Only trees or part thereof designated by the county as dead,

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

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

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

19. Debris piles shown in woodland preservation areas shall be removed by hand without the use of mechanical equipment within the preservation area. Chains may be used to pull debris out of the preservation areas. Caution must be used not to damage remaining vegetation.

## AFFORESTATION AND REFORESTATION NOTES

- 1. All afforestation/reforestation bonding, based on square footage, shall be posted with the county prior to the issuance of any permits. These bonds will be retained as surety until all required activities have been satisfied or the required timeframe for maintenance has passed, whichever is longer.
- 2. The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit. (This standard note may be modified as necessary to address which building permits are adjacent to the proposed planting areas.) Seedling planting is to occur from November through May only. No planting shall be done while ground is frozen. Planting with large caliper stock or containerized stock may be done at any time provided a detailed maintenance schedule is provided.
- If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type 2 Tree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title to the homeowner, the developer or builder shall obtain a signed statement from the 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 county.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- 8. 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.
- 9. Failure to establish the afforesation or reforestation within the prescribed time frame will resulting the forfeiture of the reforestation bond and/or a violation of this plan including the associated \$9.00 per square foot penalty unless the county inspector approves a written extension.

#### PLANTING SPECIFICATION NOTES

auxiliary/fibrous roots) shall be present.

leaders and branches shall be rejected.

landscape contractor.

the time of planting.

calcium and organic matter.

recommendations made by the testing company.

removal from the green house, and planted immediately upon receipt by the

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

4. Planting Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be plated in a day. Seedlings, once removed

from the nursery or temporary storage area shall be planted immediately.

5. Timing of Planting: The best time to plant seedlings is while they are dormant,

November. No planting shall be done while ground is frozen. Planting shall

occur within one growing season of the issuance of grading/building permits

6. Seedling Planting: Tree seedlings shall be hand planted using a dibble bar or

bent. Moist soil should then be packed firmly around the roots. Seedlings

should be planted at a depth where their roots lie just below ground surface.

Air pockets should not be left after closing the hole which would allow the roots to dry out. See planting details for further explanation. If the contractor wishes

to plant by another method, the preparer of this tree conservation plan must be

7. 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.

8. 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

submitted for testing to a private company. The company of choice shall make

recommended for corrections of soil texture, pH, magnesium, phosphorus, potassium,

(if the entire area appears uniform, then only one sample is necessary), and

recommendations for improving the existing soil. The soil will be tested and

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

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

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

13. Groundcover Establishment: The remaining disturbed area between seedling planting

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

15. 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

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

A Four-Year Management Plan for Re/Afforestation shall be added to the plan as follows:

Survival check once annually (September-November) see Note 1)

Control of undesirable vegetation as needed (1 x in June and 1 x in

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

1. Survival Check: Check planted stock against plant list (or as-built) by

data forms (Condition Check Sheets) to owner after each inspection.

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

3. Miscellaneous: Fertilization or watering during years 1 through 3 will be

walking the site and taking inventory. Plants must show vitality. Submit field

FOUR-YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION AREAS

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

Survival check once annually (September-November)

mortality, replace with an alternative plant type.

done on an as needed basis. Special return operations or

recommendations will be conducted on an as needed basis.

must be supplemented with additional seedlings to reach the required number at time

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

(as noted) to each planting site (see detail shown on this plan).

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

the following notes shall be added to the plan:

Year 1: Site Preparation and Tree Planting

Watering is needed (2 x month)

Year 2-3: Reinforcement planting is needed (See Note 2)

Year 4: Reinforcement planting if needed. (See Note 2)

Survival Check (September-November)

Remove all dead plants.

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

contracted and give his approval before planting may begin.

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

April, when the soil is moist, but may be planted from March through

and/or reaching the final grades and stabilization of planting areas.

prior to spring budding. The most suitable months for planting are March and

other suitable material and shall be maintained through periodic watering, until

Quantity: (See Plant Schedule)

- remove a hazardous tree or portion thereof, the new owner shall obtain a written statement from a Type: (See Plant Schedule) Certified Arborist or Licensed Tree Expert identifying the hazardous condition and the proposed corrective measures prior to having the work conducted. After property documentation has been 3. Plant Quality Standards: The plants selected shall be healthy and sturdy completed per the handout "Guidance for Prince George's County Property Owners, Preservation of representatives of their species. Seedlings shall have a minimum top growth of Woodland Conservation Areas", the arborist or tree expert may then remove the tree. The stump shall 18". The diameter of the root collar (the part of the root just below ground level) be cut as close to the ground as possible and left in place. The removal or grinding of the stumps in shall be at least 3/8". The roots shall be well developed and at least 8" long, the woodland conservation area is not permitted. no more than twenty-five percent (25%) of the root system (both primary and
- 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 Plants that do not have an abundance of well developed terminal buds on the 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. Plants shall be shipped by the nursery immediately after lifting from the field or

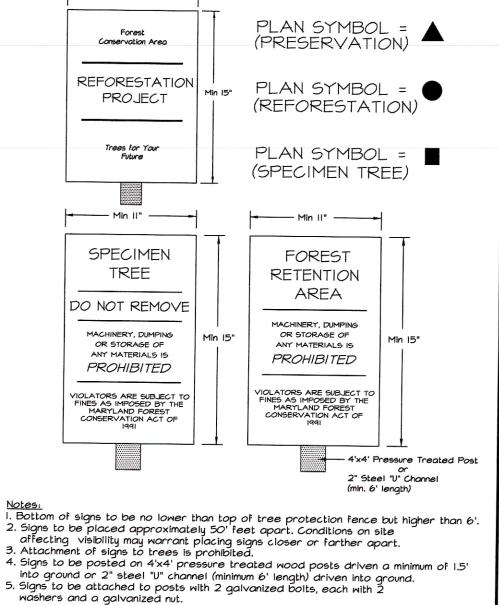
POST DEVELOPMENT NOTES

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

1. If the developer or builder no longer has an interest in the property and the new owner desires to

- 2. 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.
- 3. 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.
- 4. 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.

# Tasks Months Planting Seedlings Whips Fertilizer (if needed) Water++ Pruning Recommended Optimal time Recommended with Additional Care Dependent Upon Site Conditions Dependent Upon Site Conditions: Weekly Watering is Strongly Recommended From May Through October Unless Weekly Rainfall Equals I NOTES: I. Activities during November through February depend on ground conditions. No fall planting of oaks and pines. The planting and care of trees most successful when coordinated with the local conditions. This calendar summarizes some of the recommended time frames for basic reforestation

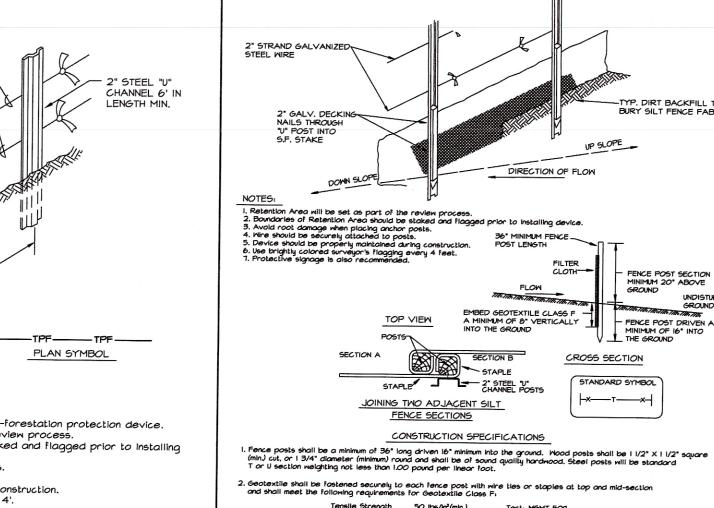


Forest preservation, specimen tree and re/af-forestation protection device. . Protected areas will be set as part of the review process. 3. Boundaries of protected areas should be staked and flagged prior to installing 4. Avoid root damage when placing anchor posts. 5. Wire should be securely attached to posts. 5. Device should be properly maintained during construction. Use brightly colored surveyor's flagging every 4'. 9. Contractor may use blaze orange tree protection fence or equal according to MD State Forest Conservation Technical Manual Figure D-5

2 STRAND GALVANIZED STEEL

WIRE 12 OR 14 GAUGE

SURVEYOR'S FLAGGING -

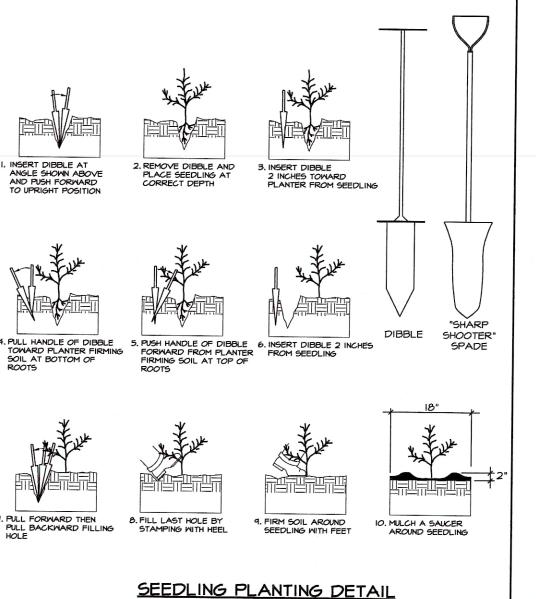


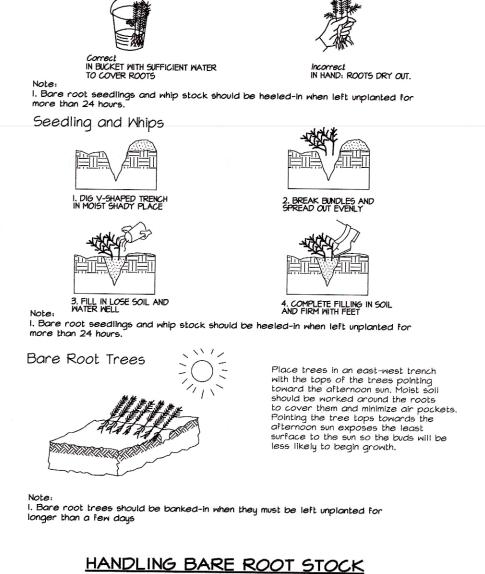
Geotextile shall be fostened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F: Tensile Strength 50 lbs/in²(min.) Test: MSMT 509
Tensile Modulus 20 lbs/in²(min.) Test: MSMT 509
Flow Rate 0.3 gal it / minute (max.) Test: MSMT 322
Filtering Efficiency 15% (min.) Test: MSMT 322 Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment buposs. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

CONSTRUCTION SPECIFICATIONS

TREE PROTECTION FENCING - TYPE COMBINATION SILT FENCE & TREE PROTECTION - TYPE II







2" SAUCER WITH SHREDDED

REMOVE TOP 1/3 OF

LOOSEN SIDES OF PLANT PIT AND ROOTBALL

BURLAP AND TY

SIGNAGE NOT TO SCALE

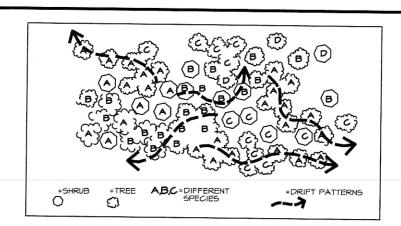
Handling Seedlings in the Field

TREE PROTECTION FENCE

1. Retention Areas to be established as part of the forest conservation Boundaries of Retention Areas should be staked, flagged and/or fenced

Exact location of trench should be identified. 4. Trench should be immediately backfilled with soil removed or other high 5. Roots should be cleanly cut using vibratory knife or other acceptable

<u>ROOT PRUNING</u>



STANDARD SYMBOL

Aggregate Drift or Sweep. A cluster type grouping which tapers or feathers out along the edges. Aggregate massing or drifts are one of the most common vegetation distribution patterns occurring in nature. Principle seed bearers are at the central core of the cluster with seed dispersal outwards, often windblown, with densities thinning out along the fringes or extremities (groupings blend through and to other groupings). Imagine the fallout of windblown milkweed seeds. They often appear as aggregate drifts, elongated and

Application: When developing a planting plan the Maryland Forest

and site stocking options. This is meant for determining the appropriate number of plants required, not necessarily a feet on-center "grid pattern" layout. Many of the State's regulatory reforestation sites installed since the inception of the Act appear as orchards. This unnatural grid patterns can be corrected thru the application of ggregate distribution. This does not mean that plants mus be in a grid pattern, the drifts of shrubs cannot blend into groupings of trees or that groupings of same species cannot occur together. It simply means that the installer should meet the aforementioned forest conservation act criteria at the same time replicating natures aggregate drift patterns (see When using this theory to lay out a planting plan the size of the drifts should depend on the quantity of plants allocated,

Conservation Manual (pages 98 thru 101) offers recommendations

on reforestation methods, species selection, plant materials

the scale of the site, and the careful consideration of the

PLANTING LAYOUT (AGGREGATE DISTRIBUTION DRIFT THEORY)

#### PLANT SCHEDULE FOR RE/AFFORESTATION STOCK SPECIFICATION: 700 SEEDLINGS PER ACRE

TOTAL REVAFFORESTATION PROVIDED, 517 ACRES

	Seedling Selection							
eforestation Area	Acreage	Tulip Poplar	Sweet Gum	Red Maple	Red Oak	White Oak	Total No. of Seedlings	
1	0.16	23	23	23	23	23	115	
2	0.12	17	17	17	17	17	85	
3	0.11	16	16	16	16	16	80	
4	0.59	83	83	83	83	83	415	
TOTAL	0.98	139	139	139	139	139	695	

I. All tree/shrub species planted within the re/afforestation areas, should be

randomly distributed throughout the proposed relafforestation area, so as to promote a natural woodland structure. (See Planting Layout detail) 2. In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental

DECIDUOUS OR EVERGREEN, B + B OR CONTAINER SHRUB PLANTING DETAIL AND PROFILE

Source: Maryland State Forest Conservation Technical Manual, 3rd Edition - 199

(SEE SPECIFICATIONS)

SHRUB PLANTING DETAIL

DECIDUOUS OR EVERGREEN

ALL JUNIPER PLANTS SHOULD BE PLANTED SO

GROMMETTED NYLON STRAPPING

SURVEYORS FLAG (TYP. 3 PLACES)

2-3' SAUCER WITH 2-3' SHREDDED

W/ 10 GUAGE GUY WIRE

FIRST LATERAL ROOT FLUSH

- BACKFILL SOIL MIX (SEE SPECS)

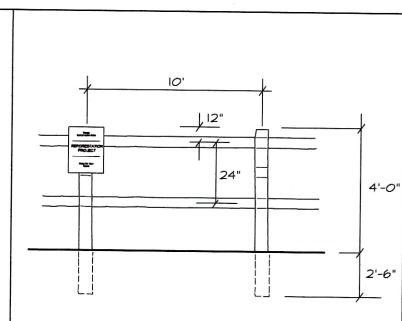
WITH FINISHED GRADE

ARDWOOD MULCH

TOP OF ROOT MASS OCCURS AT FINISHED

GRADE OF MULCH LAYER. ANY BROKEN

PRUNE ALL DAMAGED OR DEAD



1. Reforestation signs to be attached to wood posts every 50 feet. 2. Top of sign to be flush with top of wood post. 3. Signs to be attached using 2 galvanized wood screws each with a galvanized washer.

SPLIT RAIL FENCE DETAIL

meets conditions of final approva by the Planning Board, its designee or the District Council. M-NCPPC APPROVAL PROJECT NAME: GRACE UNITED METHODIST CHURCH PROJECT NUMBER: DSP-18033 For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet

FOR OFFICIAL USE ONLY

QR label certifies that this plan

SHRUB BED PLANTING PROFILE

Prince George's County Planning Department, M-NCPPC Environmental Planning Section TREE CONSERVATION PLAN APPROVAL TCP 2 - 012 - 2018									
	Approved by	Date	DRD #	Reason for Revision					
00	CHUCK SCHNEIDER	6-22-2018		SUBSURFACE CEMETERY INVESTIGATION					
01	(Buc 2 Sounder	5/9/2019	DSP-18033	LIMITED DETAIL SITE PLAN					
02									
03									
04									
05									
06									

## DSP-18033

TREE CONSERVATION PLAN TYPE 2

GRACE UNITED METHODIST CHURCH PISCATAWAY DISTRICT No. 5

PRINCE GEORGE'S COUNTY, MARYLAND

TRUSTEES OF GRACE UNITED METHODIST CHURCH AT FORT WASHINGTON, INC. 11700 OLD FORT ROAD FORT WASHINGTON, MD 20744 ATTN.: BROTHER PURCELL CONWAY PHONE: 202-329-6147

UNDISTURBED

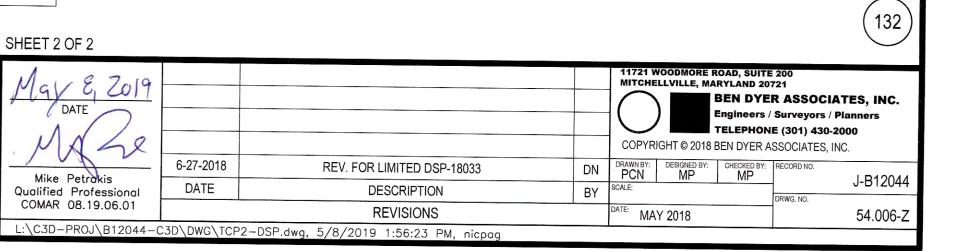
B + B TREE PLANTING DETAIL

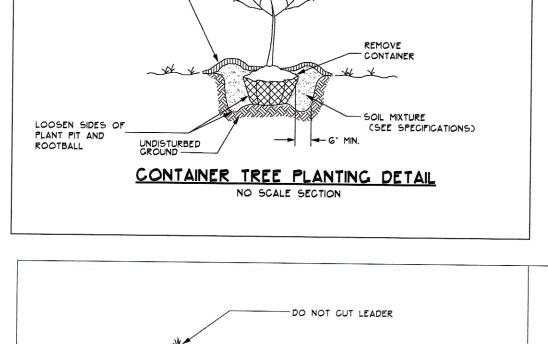
DECIDUOUS

NO SCALE SECTION

FOR TREES 2 1/2' CALIPER OR GREATER

→ 12° MIN.



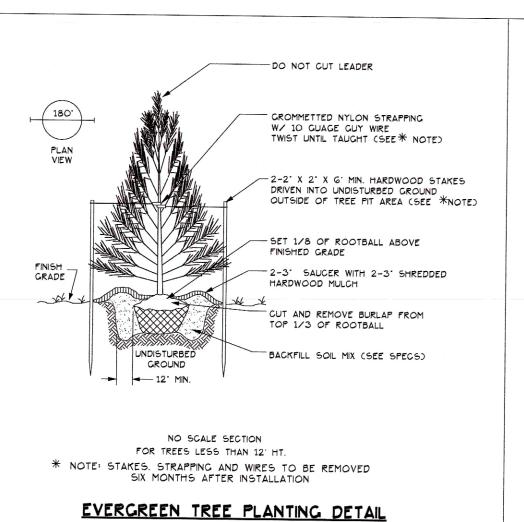


2" SAUCER WITH SHREDDED

HARDWOOD MULCH -

PRUNE ALL DAMAGED OR DEAD

WOOD PRIOR TO PLANTING



NEVER CUT MAIN LEADER NEVER CUT MAIN LEADER SELECTIVELY PRUNE TOP 1/4th OF BRANCHES THIN 1/3 OF NATURAL BRANCHING REMOVE DAMAGED. BROKEN OR RETAINING NATURAL FORM CONFLICTING BRANCHES -REMOVE DAMAGED, BROKEN OR CONFLICTING BRANCHES 2-2" X 2" X 6" HARDWOOD POSTS-WRAP TRUNK WITH TREE WRAP TIE WITH TWINE AT THREE PLACES WRAP TRUNK WITH TREE WRAP W/ 10 GUAGE GUY WIRE TWIST UNTIL TAUGHT TO SECOND TIER OF BRANCHES MINIMUM TO SECURE WRAP. IE WITH TWINE AT THREE PLACES (START FROM BOTTOM AND MINIMUM TO SECURE WRAP (START FROM BOTTOM AND CUT AND REMOVE BURLAP FROM - 2-3' SAUCER WITH 2-3' SHREDDED TOP 1/3 OF ROOTBALL-HARDWOOD MULCH CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL STAKES (3 REQUIRED) -BACKFILL SOIL MIX (SEE SPECS) 90' ANGLE TO WIR! PLACE STAKE 2" BELOW GRADE-- POSTS DRIVEN INTO UNDISTURBED GROUND OUTSIDE OF TREE PIT AREA B + B TREE PLANTING DETAIL NO SCALE SECTION FOR TREES LESS THAN 2 1/2 CALIPER

Planning Section.

\* NOTE: STAKES. STRAPPING AND WIRES TO BE REMOVED SIX MONTHS AFTER INSTALLATION DECIDUOUS, B + B TREE PLANTING DETAILS

OWNER\APPLICANT