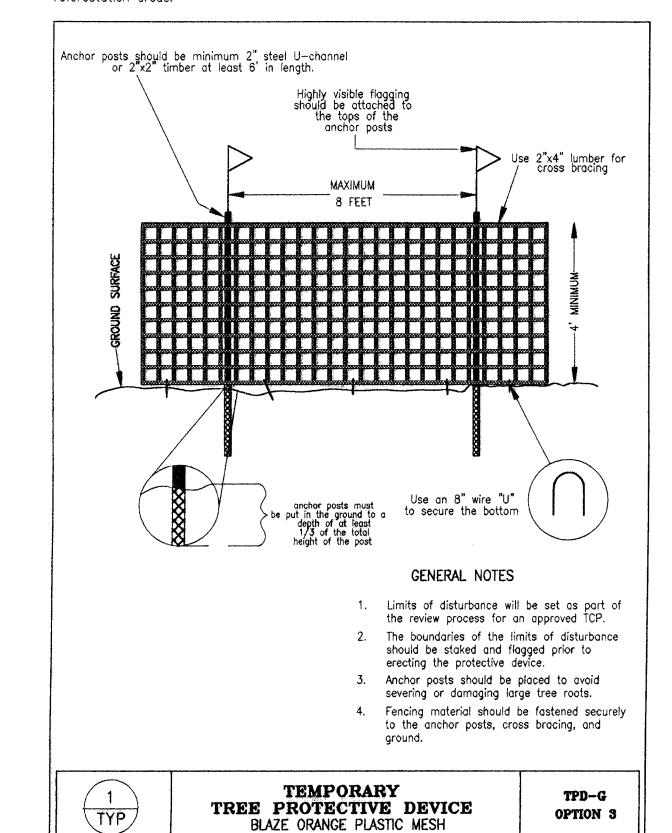


General Tree Conservation Notes:

1. 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 \$1.50 per square foot mitigation fee. 2. The Department of Environmental Resources (DER) Inspector must be contacted prior to the start of any work on the site to address implementation of Tree Conservation measures shown on

3. All appropriate bonds will be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied. 4. The location of all Tree Protection Devices (TPDs) for areas of preservation shown on this Plan shall be flagged or staked in the field prior to the pre-construction meeting with the Inspector from DER. Upon approval of the flagged or staked TPD locations by the DER Inspector, installation of the TPDs may begin. TPD installation shall be completed prior to installation of initial Sediment Controls. No cutting or clearing of trees may begin before final approval of TPD installation. 5. Since work on this project will be initiated in several phases all TPDs required for a given phase shall be installed prior to any disturbance within that phase of work. 6. Woodland Conservation — Tree Save Areas shall be posted as shown at the same time as Tree Protective Device installation. The signs shall remain in place in perpetuity. 7. Roots of all trees within 20 feet of the limits of disturbance shall be cut along the limits of disturbance to a depth of at least 18 inches using a vibratory plow (cable laying machine) or

toothed chain trencher, prior to installation of Tree Protective Devices or start of grading. 8. Contractor is liable for any damages he causes during construction to any preservation areas, fences, roads, paved paths, utilities, or other improvements on private or public property. 9. Approved Sediment and Erosion Control Measures may be substituted in lieu of Tree Protective Devices (TPDs) shown on this plan. In-field location and substitutions must be approved by the DER Inspector. 10. Tree Protection Device shown below (Detail 1) is to be used for both preservation and reforestation areas.



-4"x4" PRESSURE TREATED POST

CONSERVATION

AREA

MACHINERY, DUMPING

OR STORAGE OF ANY MATERIALS IS

PROHIBITED

Violators are Subject to

Fines as Imposed by the

Maryland Forest Conservation

Act of 1991

1. SIGN TO BE PLASTIC WHITE.

MIN. DEPTH 18"

TREE CONSERVATION SIGN

2. BOTTOM OF SIGNS TO BE HIGHER THAN TOP OF TREE PROTECTION FENCE.

3. TREE CONSERVATION AREA SIGNS WILL BE SECURELY ATTACHED TO AT LEAST

REFORESTATION DETAIL

LEGEND RED MAPLE MERICAN HOLLY O PIN OAK ☐ SWEETGUM

REFORESTATION PLANT SCHEDULE

CONDITION QUANTITY/ACRE ACER RUBRUM - RED MAPLE 100 (20%) QUERCUS PALUSTRIS - PIN OAK WHIP 150 (30%) LIQUIDAMBER STYRACIFLUA - SWEETGUM WHIP 150 (30%) ILEX OPACA - AMERICAN HOLLY 100 (20%)

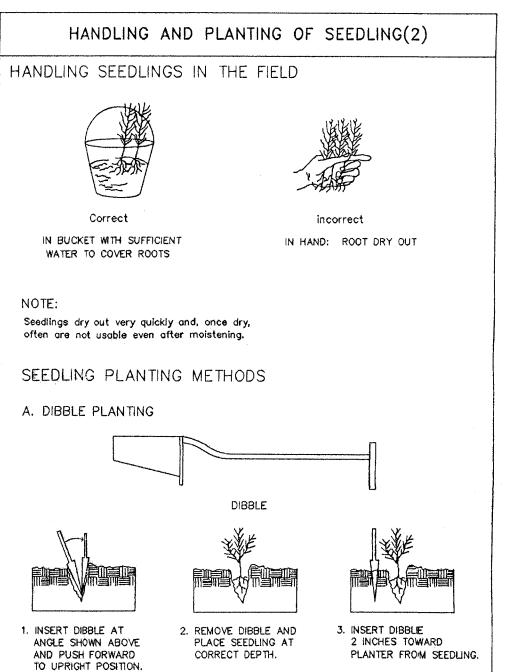
1,000 Seedling Equivalents per Acre, and that a Whip is the Equivalent to Two Seedlings, so that 500 Whips per Acre Satisfies the Requirement. Reforestation Notes:

1. Seedlings will be hand planted using random distribution of species and locations, at an average of 500 inch calipers per acre, utilizing the "Dibble Planting Method". 2. Seedlings will be graded for quality, especially root systems, before planting, and come from 3. Contractor will provide for proper care of seedlings, including during transport, in storage, and 4. Any tree shown by inspection within 30 days of planting to be improperly planted will be replaced and properly planted with new trees of the same type and specifications. If 20% or more of seedlings are improperly planted, the entire stand may be required to be replaced with new trees properly planted, or the total cost of the trees and replanting repaid to the owner, at the owner s

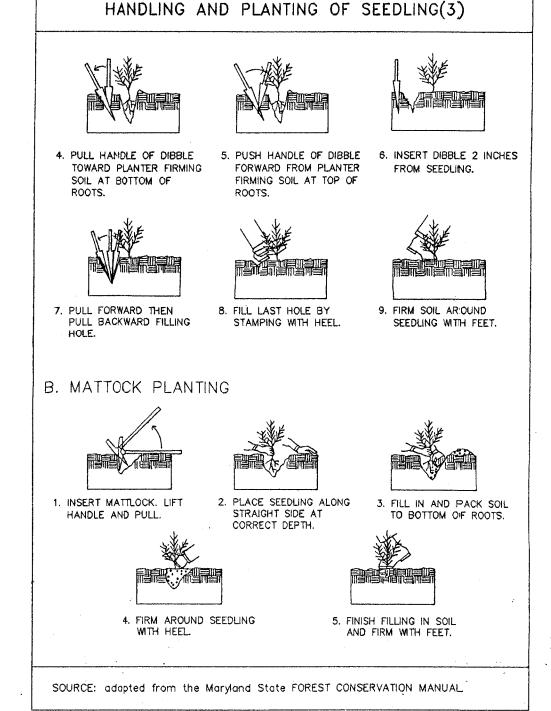
5. The planting contractor shall guarantee a minimum of 75% survival of the plants for 5 years from date of planting. Plants will be field checked at least three times during the first year, with watering if needed and control of undesirable vegetation if needed. Plants will be field checked two times during the second and third years with reinforcement planting if needed and control of undesirable vegetation if needed. Plants will be field checked one time during the fourth and fifth years with reinforcement planting if needed. Records of survival to be maintained during the field checks. Field data forms will be sent to the client after each visit. (See Tee Condition Check Sheet on plan.) Dead plants will be replaced to maintain at least 75% survival. Perimeter fencing and signage will be removed after year 5 based on the date planted. Contractor will locate all existing utilities prior to start of operations.

Contractor to adjust plant locations to avoid existing utilities and maintain existing easements. New plant locations to be approved by the County and/or Urban Forester. 8. Contractor is liable for damages caused to any utilities, including any repairs, at no additional 9. Contractor is liable for damages he causes during planting to any fences, roads, paved paths, other improvements on private or public property. 10. Twenty-five percent (25%) of Afforestation requirements met through the use of landscape

plant materials in Afforestation areas. 11. All reforestation/afforestation areas adjacent to lots, and split rail fencing along the outer edae of all reforestation/afforestation areas shall be installed prior to issuance of use and occupancy permits for the adjacent lots.



SOURCE: adapted from the Maryland State FOREST CONSERVATION MANUAL



SPECIFICATIONS FOR PLANTING

Plant Identification: All plants shall be properly marked for identification. List of Plant Material

The Contractor will verify the plant quantities prior to bidding and any discrepancies shall be brought to the attention of the Landscape Architect. The Contractor shall furnish and plant all plants required to complete the work shown on the drawings. Substitution shall not be made without the written approval of the Landscape Architect. This Contract will be based on the bidder having verified prior to bidding, the availability of the required plant material as specified on the Plant Materials List.

Plant Quality

All shrubs shall be dense, heavy to the ground, and well grown, showing evidence of having been sheared regularly, and shall be sound, free of plant disease or insect eggs and shall have a healthy normal root system, Plants shall be freshly dug and not heeled-in stock, nor from cold storage. All plants shall be nursery grown (except as noted below). Plants shall not be pruned prior to delivery. The shape of the plant shall in general conform to its natural growth proportions unless otherwise specified. Trees shall conform to the branching, callber, and height specifications of the American Association of Nurserymen, and shall have a well-shaped, heavy branch structure for the species. Evergreen trees are to have an internode no greater than 18' and shall be uniformly well shaped. All plant sizes shall average at least the middle of the range given in the plant list.

XIM IIO2

Soil mix will be 2/3 existing soil, 1/3 leafmold or equal organic material, thoroughly mixed and homogenized

Holes for all plants shall be 18' larger in diameter than size of ball or container and shall have vertical sides. Hedges shall be planted in a trench 12' wider, beds for mass planting shall be entirely rototilled to a depth of 8" and shall be 18" beyond the average outside edge of plant

Backfilling shall be done with soil mix, reasonably free of stones, subsoil, clay lumps, stumps, roots, weeds, bermuda grass, litter, toxic substances, or any other material which may be harmful to plant growth, or hinder grading, planting, or maintenance operations. Should any unforeseen or unsultable planting conditions arise, such as faulty soil drainage or chemical residues, they should be called to the attention of the Landscape Architect and Owner for adjustment before planting. The plant shall be set plumb and straight, and shall be staked at the time of planting. Backfill shall be well worked about the roots and settled by watering. Plants will be planted higher than surrounding grade. Shrubs will be 1" higher and trees will be 3" higher.

All trenches and shrub beds shall be cultivated, edged and mulched to a depth of 3' with fine shredded hardwood bark. The area around isolated plants shall be mulched to at least a 6' greater diameter than that of the hole. Plant beds adjacent to buildings shall be mulched to the building wall. Maintenance

The Contractor shall be responsible during the contract and up to the time of acceptance, for keeping the planting and work incidental thereto In good conditions, by replanting, plant replacement, watering, weeding, cultivating, pruning and spraying, restaking and cleaning up and by performing all other necessary operations of care for promotion of good plant growth so that all work is in satisfactory condition at time of acceptance, at no additional cost to the Owner.

Fertilizer

Fertilizer shall be a slow release type contained in polyethylene perforated bags with micropore holes for controlled feeding such as Easy Grow as manufactured by Specialty Fertilizer, Inc., Box 355, Suffern, New York 10901 or approved equal. The bags shall contain 1 ounce of soluble fertilizer analysis 16-18-18 per units to last for three years and shall be applied during planting as recommended by the manufacturer. If fertilizer packets are not used the Contractor shall apply granular fertilizer to the soil mix with 10-6-4 analysis at the following rates: Tree Pits, 2-3 lbs. per caliper inch; Shrub Beds, 3-5 lbs. per 100 square foot; Ground cover, 2-3 lbs. per 100 square foot.

Ground Cover

All areas of ground cover shall be rototilled to a depth of 6". Apply 2" of organic material and rototill until thoroughly mixed. Apply fertilizer as

Guarantee and Replacement

All materials shall be unconditionally guaranteed for one year. The Contractor is not responsible for losses or damages caused by mechanical injury or vandalism. Guarantee shall cover both labor and materials. Earth saucers and stakes and guys shall be removed and trees, shrubs, and whips mulched to 3' maximum depth with shredded bank just prior to expiration of the one-year guarantee. The owner shall be notified in writing when this work is to occur.

Plant Spacing

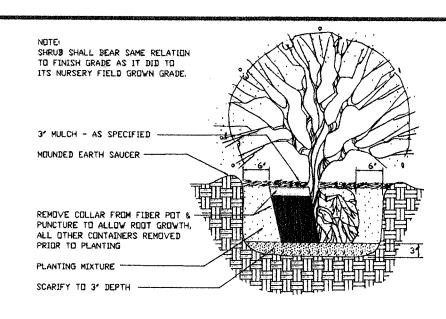
Plant spacing is generally to scale on plan. Shrub spacing is noted in the plant list. No plants except viney ground covers or espaliered material shall be closer than 30" to building, walks or curbs.

WOODLAND CONSERVATION AREA EDGE MANAGEMENT NOTES Prepared by the Environmental Planning Section, Planning Department, M-NCPPC Revised 4/23/2003

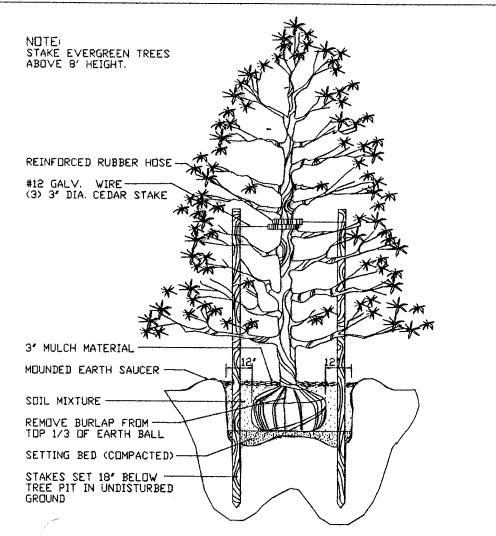
Removal of Hazardous Tree or Hazardous Limbs By Developers or Builders

The Devoloper 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 Department of Environmental Resources as dead, dying or hazardous may be removed.

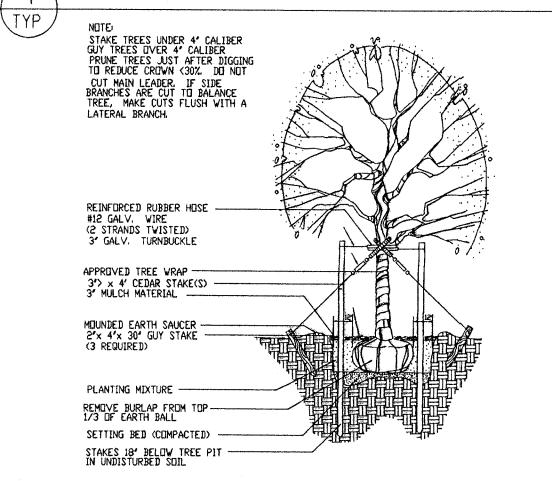
- 1. A tree is considered hazardous if a condition is present which leads a Licensed Arborist or a Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area or other high use area and result in personal injury or property damage.
- 2. If a hazardous condition may be alleviated by corective pruning, the Licensed Arborist or the Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the ANSI A-300 Pruning Standards ("Tree. Shrub, and other Woody Plant Maintenance - Standard Practices").
- 3. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the building or grading inspector if there is a valid grading or building permit for the subject lots or parcels on which the trees are located. Only after approval of the appropriate inspector may the tree be cut by chainsaw to neat the existing ground level. The stump may not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- 4. Debris from the tree removal or pruning that occurs within 35 fett 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 the materials shall be placed into brush piles that will serve as wildlife habitat.







PLANTING DETAIL/EVERGREEN TREES



PLANTING DETAIL/DECIDUOUS TREES

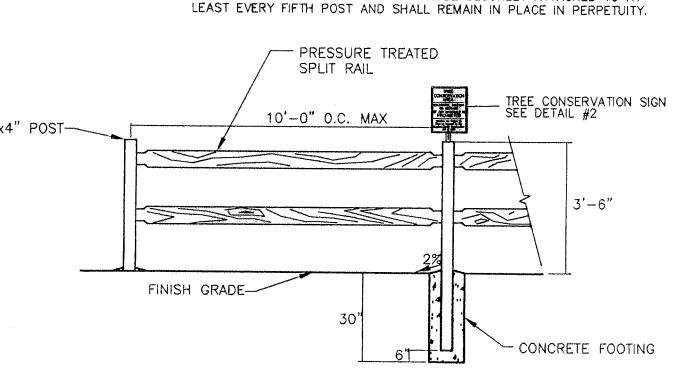
<u>Habitat Management Plan Notes:</u>

1. No disturbance of woodland is permitted on the site until it is confirmed that it is consistent with the Habitat Management Plan for the Stripeback Darter approved by the Wildlife and Heritage Division of DNR 2. Prior to the issuance of any grading permit for the site, the Type II TCP shall be revised to incorporate the recommendations of the approved Habitat Management Plan for the Stripeback

Protection of Reforestation and Afforestatation Areas by Individual Homeowners

3. No grading, cutting, clearing of woodland, or removal of trees is permitted on the site until the recommendations of the Habitat Management Plan have been incorporated into the TCPIL

2. Reforestation areas shall not to be mowed, however, the management of competing vegetation around individual trees is acceptable.



NOTE: TREE CONSERVATION AREA SIGNS WILL BE SECURELY ATTACHED TO AT

PERMANENT TREE PROTECTION DEVICE (TPD) SPLIT RAIL FENCE (NTS)

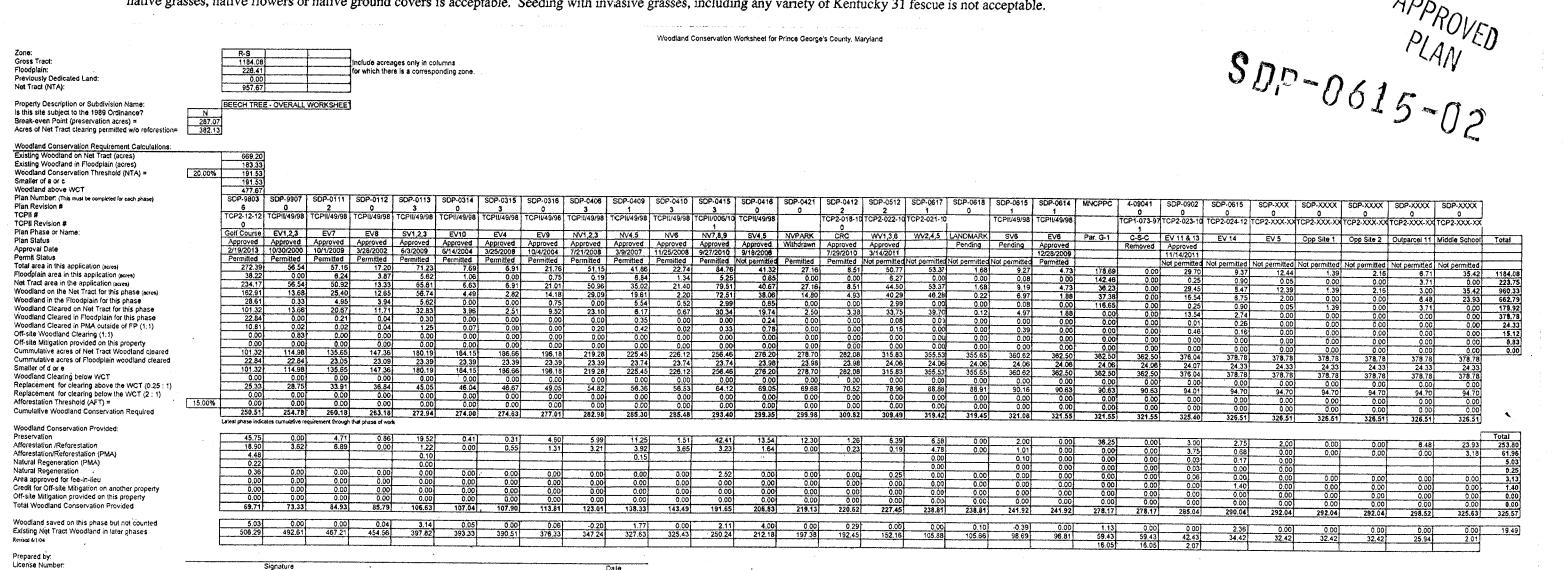
SPLIT RAIL FENCE TO BE LOCATED ALONG VULNERABLE EDGES FOR ALL AREAS OF AFORESTATION/REFORESTATION.

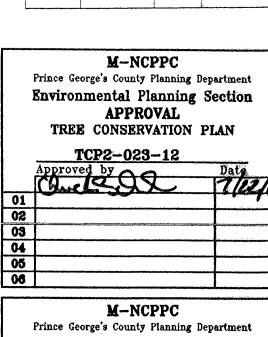
> NOTE: TCP 2-23-12 AND TCP 2-24-12 WAS SEPARATED FROM TCP II -049-98 WITH THE APPROVAL OF THIS PLAN.

1. Reforestation Fencing and signage shall remain in place in accordance with the approved Type II Tree Conservation Plan or until the trees have grown sufficiently to have crown closure. 1.5 FACTOR OF SAFETY AS SHOWN

Woodland Areas NOT Counted as Part of the Woodland Conservation Requirements 1. A revised Tree Conservation Plan is required prior to clearing any woodland areas which is not specifically identified to be cleared on the most recently approved Type II Tree Conservation (TCP) on file in the office of the M-NCPPC, Environmental Planning Section located on the 4th floor of the County Administration Building at 14741 Governor Oden Bowie Drive, Upper Marlboro, Maryland 20772, phone 301-952-3650. Additional mitigation will be required for the clearing of all woodlands beyond that reflected on the approved plans. Although clearing may be allowed, it may be subject to additional replacement requirements, mitigation and fees which must be reflected on TCP revisions approved by the M-NCPPC Environmental Planning Section.

2. Homeowners or property owners may remove treesa less than two (2) inches in diameter, shrubs and vines in woodland areas which are saved but not part of the Woodland Conservation requirements after all permits have been released for the subject property. This area may not be tilled or have other ground disturbances which would result in damage to the tree roots. Raking the leaves and overseeding with native grasses, native flowers or native ground covers is acceptable. Seeding with invasive grasses, including any variety of Kentucky 31 fescue is not acceptable.





M-NCPPC APPROVALS

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

DZ 1-15-12 BP 7/24

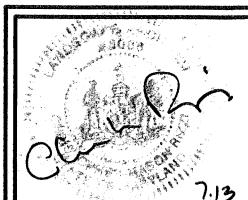
PROJECT NAME: Beach TRE

Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP2-024-12

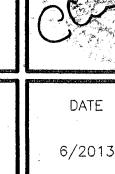
Approved by

CALL "MISS UTILITY" AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION A 1-800-257-7777

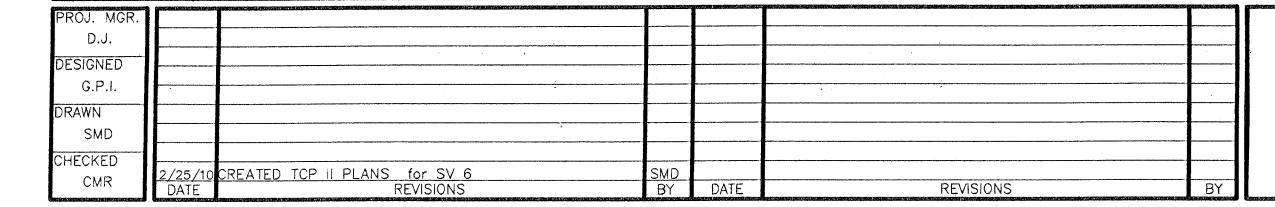
OWNER/DEVELOPER: VOB LIMITED PARTNERSHIP 8245 BOONE BOULEVARD VIENNA, VA 22182



THIS PLAN IS FOR TREE CONSERVATION PURPOSES ONLY.



TREE CONSERVATION PLAN 6/2013





GREENMAN-PEDERSEN, INC. ENGINEERS, ARCHITECTS, PLANNERS, CONSTRUCTION ENGINEERS & INSPECTORS 10977 GUILFORD ROAD ANNAPOLIS JUNCTION, MD 20701 WASH. (301) 470-2772 BALT. (410) 880-3055 FAX: (301) 490-2649 www.gpinet.com

Clatest date hereon

PA. 79 UPPER MARLBORO & VICINITY

BEECH TREE PRINCE GEORGE'S COUNTY, MARYLAND

MARLBORO (371) ELECTION DISTRICT

SOUTH VILLAGE SECTION 6 EAST VILLAGE SECTION 14

TYPE 2

ROJECT 1

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