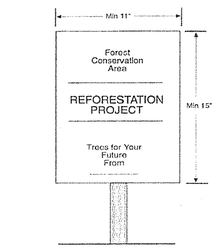
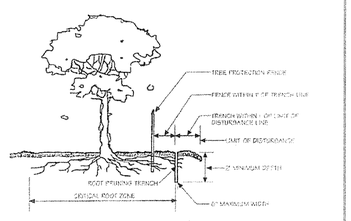


Notes:
1. The signs will be installed by workers and future residents of the newly planted material, improving the more successful result.
2. Signs may be adopted by residents for insect function of forest retention areas

Source: Adapted from Forest Conservation Manual, 1991

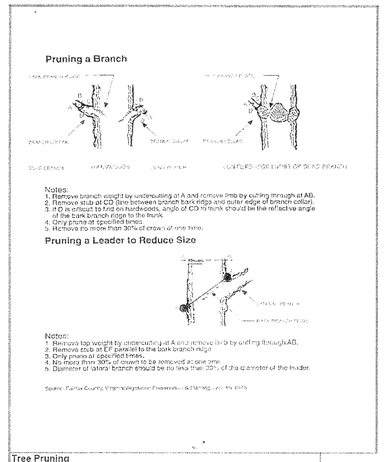
Reforestation and Afforestation Area Signs



Notes:
1. Retention Areas to be established as part of the forest conservation plan review process.
2. Boundaries of Retention Areas to be staked, flagged and/or fenced prior to trenching.
3. Exact location of trench should be staked.
4. Trench should be immediately backfilled with soil removed or organic soil.
5. Roots should be cleanly cut using vibratory knife or other acceptable equipment.

Source: Adapted from Steve Dietz & Associates/ADM, Inc. and Forest Conservation Manual, 1991

Root Pruning

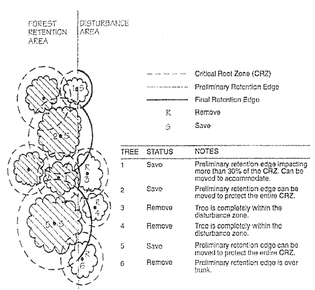


Notes:
1. Remove branch except by undercutting at A and remove limb by cutting through at AB.
2. Remove stub at CD (line between branch bark ridge and outer edge of branch collar).
3. If it is difficult to find on hardwoods, angle of CD line should be the reflective angle of the bark branch ridge to the trunk.
4. Only prune at specified times.
5. Remove no more than 30% of crown of one tree.

Notes:
1. Remove top weight by undercutting at A and remove limb by cutting through AB.
2. Remove stub at EF parallel to the bark branch ridge.
3. Only prune at specified times.
4. No more than 30% of crown to be removed at one time.
5. Diameter of lateral branch should be no less than 30% of the diameter of the leader.

Source: Fairfax County, Virginia Urban Forestry Guidelines, 1992

Tree Pruning

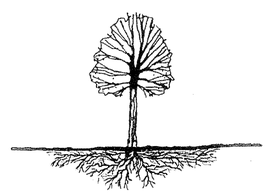


TREE	STATUS	NOTES
1	Save	Preliminary retention edge impacting more than 30% of the CRZ. Can be moved to accommodate.
2	Save	Preliminary retention edge can be moved to protect the entire CRZ.
3	Remove	Tree is completely within the disturbance zone.
4	Remove	Tree is completely within the disturbance zone.
5	Save	Preliminary retention edge can be moved to protect the entire CRZ.
6	Remove	Preliminary retention edge is over trunk.

Staking Retention Edges in the field requires tree-by-tree decisions. The above example demonstrates the size of Critical Root Zone, but tree health and tree species must also be considered when laying out a final retention line.

Source: Prince George's County Woodland Conservation Manual

Field Edge Determination



PREVENT THE FOLLOWING IMPACTS:

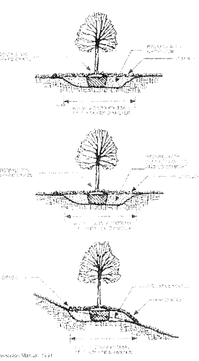
CROWN
- Broken or damaged limbs
- Wounds to bark
- Disease/insect infestation
- Upper crown dieback

TRUNK
- Sun scald
- Wounds to bark
- Disease/insect infestation
- Windthrow

CRITICAL ROOT ZONE
- Trenching/excavation/grading/burial
- Soil compaction
- Flooding
- Devastation
- Toxins
- Changes in soil pH
- Removal of understory

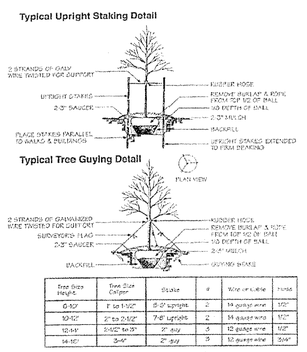
Source: Adapted from Forest Conservation Manual, 1991

Protecting Trees During Construction



Source: Adapted from Forest Conservation Manual, 1991

Container Grown and B&B Planting Techniques



Tree Size Height	Tree Size Caliper	Stake	#	Wire or Line	Flag
6-10'	1" to 1.5"	6-8' upright	2	14 guage wire	1/2"
10-12'	2" to 2.5"	7-8' upright	2	14 guage wire	1/2"
12-14'	2.5" to 3"	2" guy	3	12 guage wire	3/4"
14-16'	3-4"	2" guy	3	12 guage wire	3/4"

Source: Adapted from Forest Conservation Manual, 1991

Tree Staking and Guying Specifications

TYPE II TREE CONSERVATION PLAN 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) SHALL BE CONTACTED PRIOR TO THE START OF ANY WORK ON THE SITE TO ADDRESS IMPLEMENTATION OF WOODLAND CONSERVATION MEASURES SHOWN ON THIS PLAN.

3. PROPERTY OWNERS SHALL BE NOTIFIED BY THE DEVELOPER OR CONTRACTOR OF ANY WOODLAND CONSERVATION AREAS (TREE SAVE AREAS, REFORESTATION AREAS, AFFORESTATION AREAS, OR SELECTIVE CLEARING AREAS) LOCATED ON THEIR LOT OR PARCEL OF LAND AND THE ASSOCIATED FINES FOR UNAUTHORIZED DISTURBANCES TO THESE AREAS. UPON SALE OF THE PROPERTY THE OWNER/DEVELOPER OR OWNER'S REPRESENTATIVE SHALL NOTIFY THE PURCHASER OF THE PROPERTY OF ANY WOODLAND CONSERVATION AREAS.

4. ALL APPROPRIATE BONDS SHALL BE POSTED WITH THE BUILDING OFFICIAL PRIOR TO ISSUANCE OF ANY PERMITS. THESE BONDS WILL BE RETAINED AS SURETY BY THE BUILDING OFFICIAL UNTIL ALL REQUIRED ACTIVITIES HAVE BEEN SATISFIED.

5. ALL REQUIRED OFF-SITE MITIGATION SHALL BE RECORDED AS AN OFF-SITE EASEMENT IN THE LAND RECORDS OF PRINCE GEORGE'S COUNTY PRIOR TO ISSUANCE OF ANY PERMITS FOR THE SUBJECT PROPERTY.

6. THE LOCATION OF ALL TREE PROTECTION DEVICES (TPDs) SHOWN ON THIS PLAN SHALL BE FLAGGED OR STAKES IN THE FIELD PRIOR TO THE PRE-CONSTRUCTION MEETING WITH THE SEDIMENT AND EROSION CONTROL INSPECTOR FROM DER. UPON APPROVAL OF THE FLAGGED OR STAKED TPD LOCATIONS BY THE 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.

7. WOODLAND CONSERVATION - TREE SAVE AREAS AND/OR REFORESTATION AREAS SHALL BE POSTED AS SHOWN AT THE SAME TIME AS TREE PROTECTION DEVICE INSTALLATION AND/OR START OF REFORESTATION ACTIVITIES. THESE SIGNS SHALL REMAIN IN PLACE.

8. PRIOR TO ISSUANCE ON ANY PERMITS THE CONTRACTOR RESPONSIBLE FOR SOIL PREPARATION, SITE PREPARATION, TREE PLANTING AND TREE MAINTENANCE MUST BE IDENTIFIED.

NAME: WARDER & ASSOCIATES
ADDRESS: 8016 OLD ALEXANDRIA FERRY ROAD
CLINTON, MD 20735
PHONE: 301-868-5900

WOODLAND CONSERVATION AREA MANAGEMENT NOTES

REMOVAL OF HAZARDOUS TREES OR HAZARDOUS 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 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 CORRECTIVE PRUNING, THE LICENSED ARBORIST OR 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 NEAR 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 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.

WOODLAND AREAS NOT COUNTED AS PART OF THE WOODLAND CONSERVATION REQUIREMENTS

1. A REVISED TREE CONSERVATION PLAN IS REQURIED PRIOR TO CLEARING ANY WOODLAND AREA WHICH IS NOT SPECIFICALLY IDENTIFIED TO BE CLEARED ON THE MOST RECENTLY APPROVED TYPE II TREE CONSERVATION PLAN (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, MD 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 AND PROPERTY OWNERS MAY REMOVE TREES LESS THAN TWO (2) INCHES DIAMETER, SHURBS, 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.

GENERAL NOTES

1. THE TOPOGRAPHY SHOWN ON THIS PLAN IS FROM A FIELD RUN SURVEY BY WILLARD R. DICKERSON P.L.S. #21035, IN AUGUST 2005. IF THE TOPOGRAPHIC SOURCE CHANGES IN THE FUTURE, A REVISED NRI MAY BE REQUIRED IF THE DELINEATIONS OF REGULATED AREAS CHANGE SIGNIFICANTLY.

2. THE NATIONAL WETLANDS INVENTORY MAPS DO NOT DEPICT ANY WETLANDS ON OR ADJACENT TO THE SUBJECT PROPERTY.

3. THERE IS FLOODPLAIN ON AND ADJACENT TO THE SUBJECT PROPERTY.

4. THE SOURCE OF THE PROPERTY BOUNDARY ON THIS PLAN IS FROM A FIELD RUN BOUNDARY SURVEY PERFORMED BY WILLARD R. DICKERSON P.L.S. #210356, AND IS IN ACCORDANCE WITH L. 18312 F. 623.

5. THE SUBJECT PROPERTY IS NOT WITHIN OR ADJACENT TO A RARE, THREATENED OR ENDANGERED SPECIES EVALUATION AREA ACCORDING TO THE MARYLAND DEPARTMENT OF NATURAL RESOURCE HERITAGE PROGRAM PUBLICATION TITLED "ECOLOGY SIGNIFICANT AREAS IN ANNE ARUNDEL AND PRINCE GEORGE'S COUNTIES" DATED DECEMBER 1997.

6. THERE ARE THREE SPECIMEN TREES LOCATED ON THE PROPERTY. THE TREES WERE LOCATED USING FIELD SURVEY. THEY ARE PROPOSED TO BE REMOVED.

7. AN APPROVED NRI IS VALID FOR FIVE YEARS FROM THE DATE OF SIGNATURE BY STAFF, OR UNTIL INFORMATION USED TO PREPARE THE NRI CHANGES. NRIS WILL BE REQUIRED TO BE REVISED AND RE-APPROVED IF THE BASE INFORMATION CHANGES SIGNIFICANTLY.

8. THERE ARE NO SCENIC OR HISTORIC ROADS ADJACENT TO THE SUBJECT PROPERTY.

9. THERE IS ONE ON-SITE STREAM.

10. THERE ARE NO HIGHLY ERODIBLE SOILS ON THE PROPERTY.

FOREST EDGE MANAGEMENT NOTES

1. LIMITS OF CLEARING SHALL BE STAKED IN THE FIELD PRIOR TO ANY LAND DISTURBANCE.

2. LIMITS SHALL BE INSPECTED BY A LICENSED ARBORIST OR A LICENSED TREE EXPERT TO ASSESS CONDITION AND/OR SURVIVABILITY OF EDGE TREES. THEY SHALL DETERMINE TREATMENT(S) FOR SUCH TREES ALONG THE LIMITS AND/OR ADJUSTMENT OF LIMITS, AS NECESSARY, PER THE ATTACHED DETAIL(S).

CAUTION – NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AND TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

M-NCPPC
PRINCE GEORGE'S PLANNING DEPARTMENT
ENVIRONMENTAL PLANNING SECTION
NATURAL RESOURCES INVENTORY

APPROVAL

TCPII / 47 / 91

	STAFF SIGNATURE	DATE
INITIAL APPROVAL		
01 REVISION	[illegible]	6/18/07
02 REVISION		

REVISIONS:

WARDER
Your Church Builder
Phone: (301) 868-5900
Toll Free: (800) 732-7266
Fax: (301) 868-8740
www.wardergroup.com

WE Inc.
Williams Enterprises Incorporated
18 Mosby Lane Stafford, Virginia 22556
540-286-3710 and 540-286-0345 Fax
weinc@hughes.net

DATE: APRIL 2007
SCALE: N/A
DRAWING NAME: TCP DETAILS

PROJECT: TYPE II TREE CONSERVATION PLAN
BETH SHALOM AME ZION CHURCH
6TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

SHEET 2 OF 2

FILE No. MDPG-19D09-01