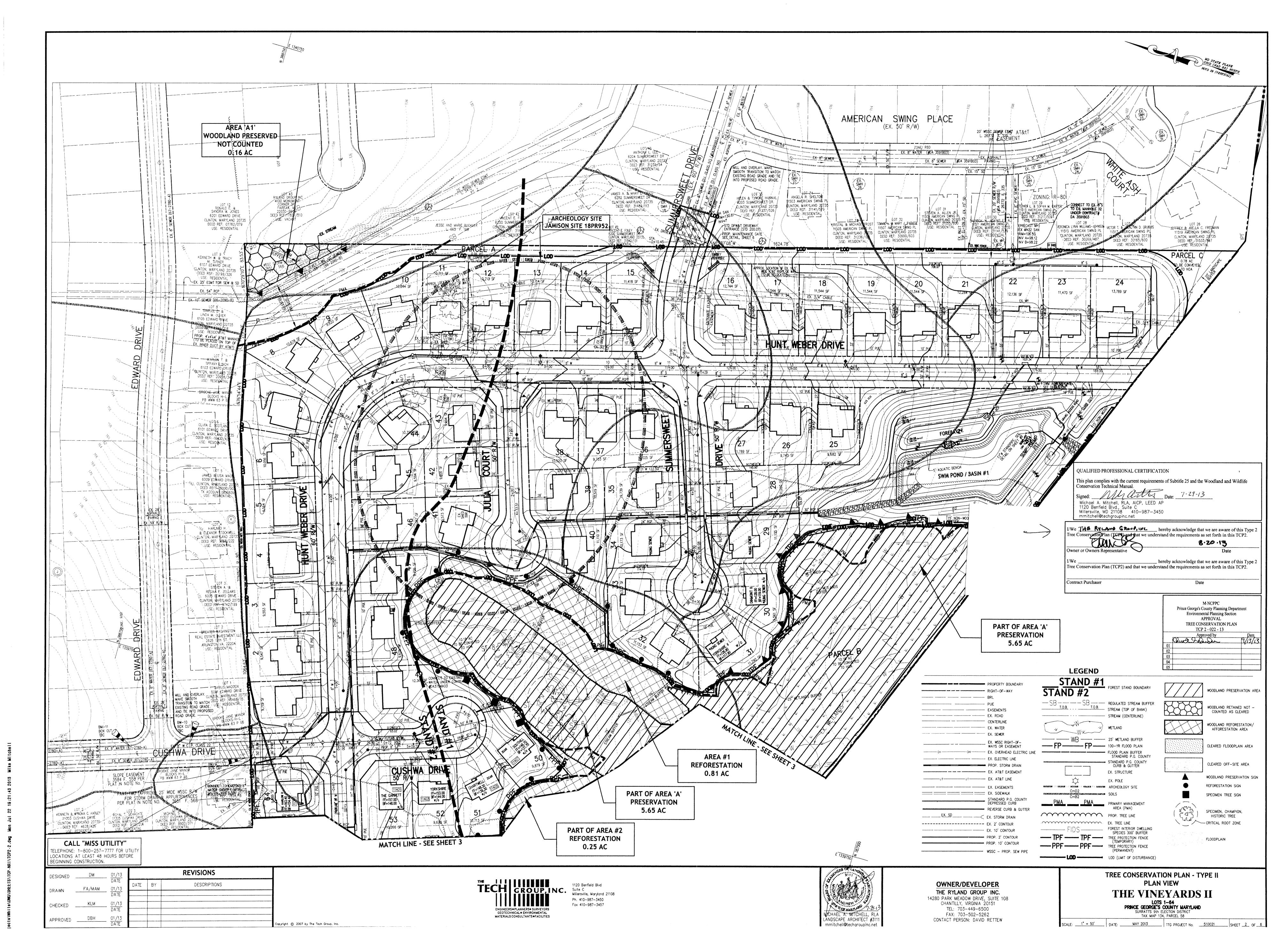
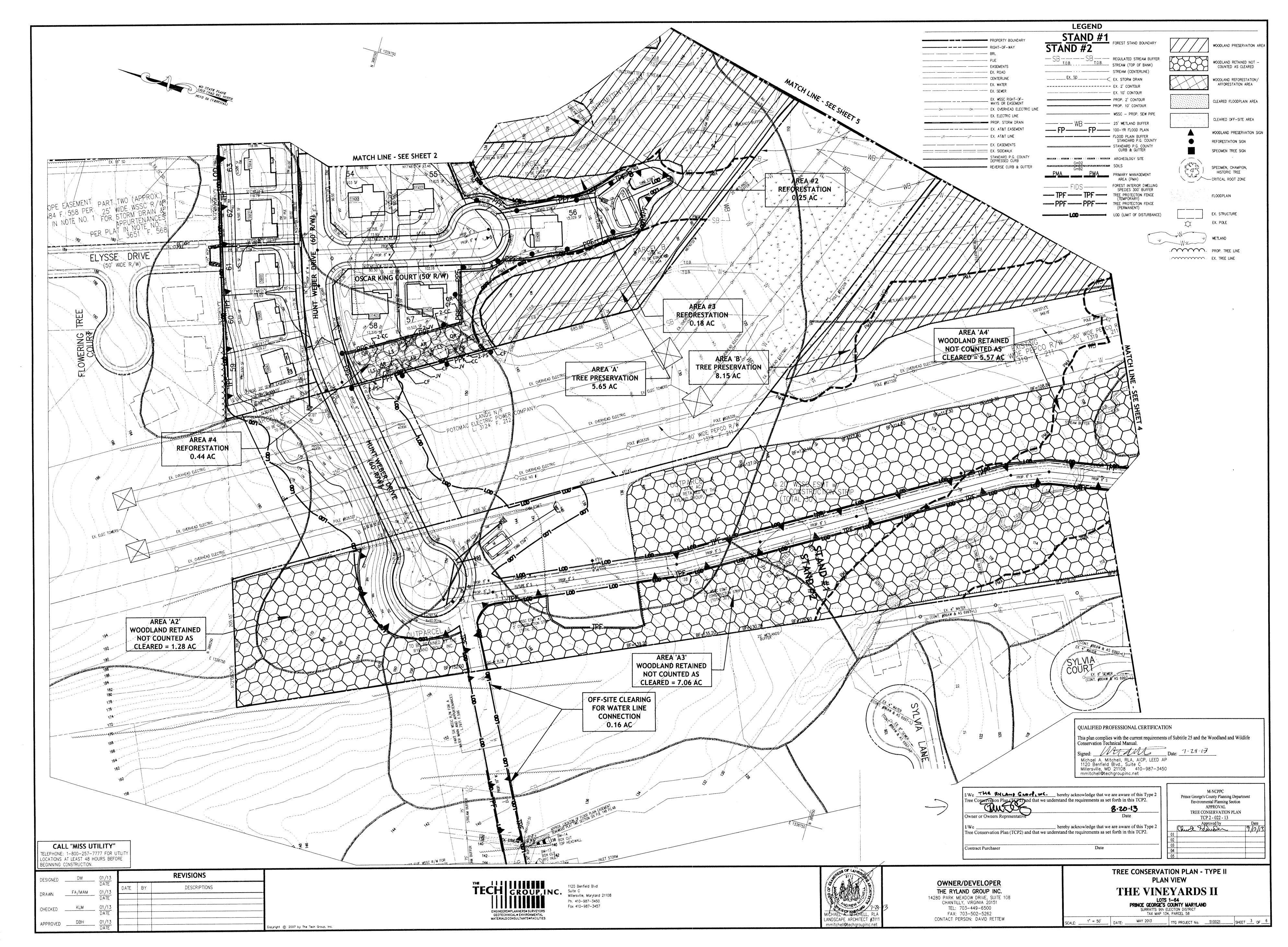
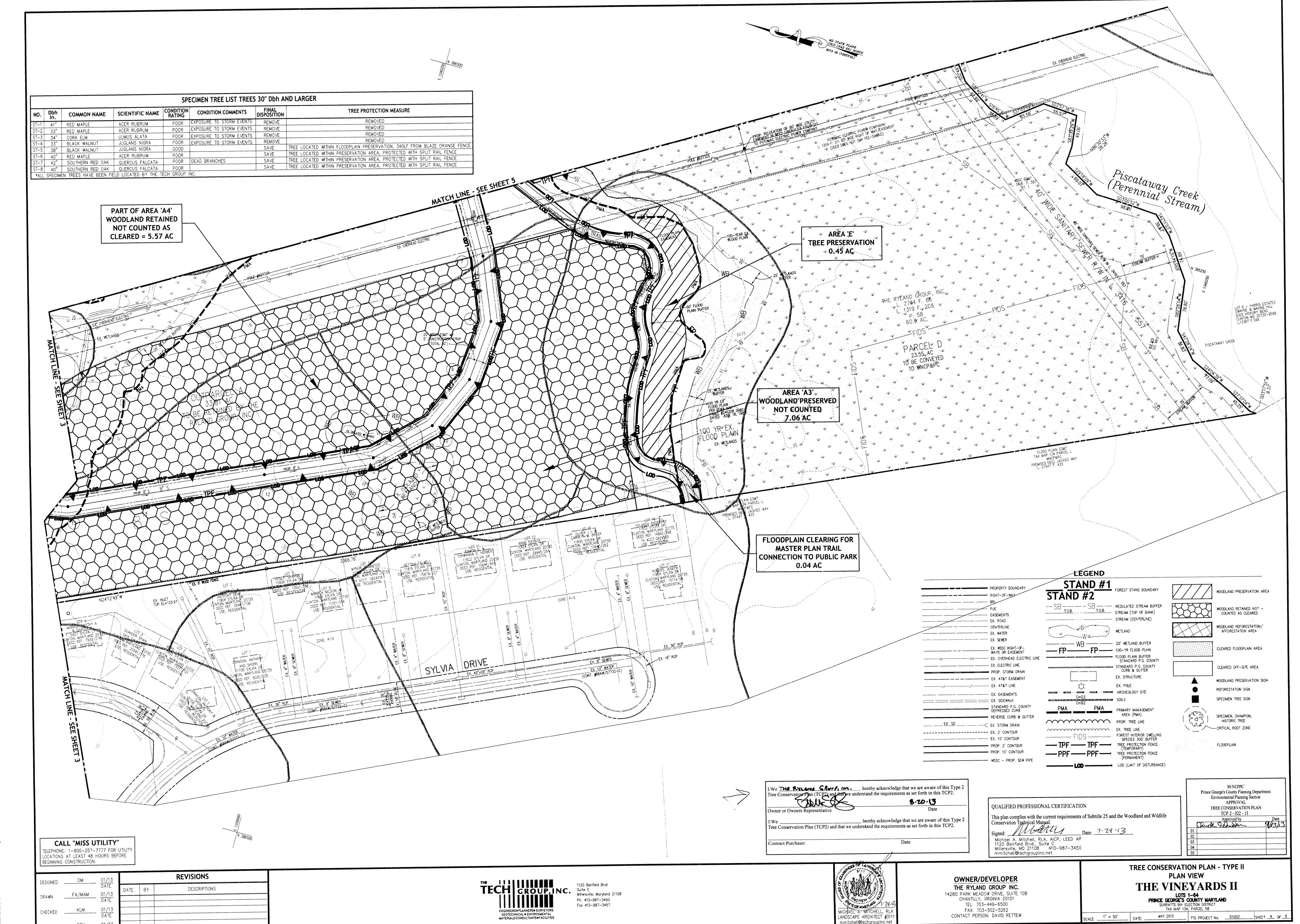


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PLANT LIST — REFORESTATION AREA #3			
REFORESTATION AREA - 0.18 ACRES			
CONTAINER GROWN 5,7, GALLON OR 1" CALIPER	R B&B, TYP. SPA	CING 15x15 FE	ET ON CENTER
REFORESTATION REQUIREMENTS OF 300 1" CALIP	PER TREES PER A	CRE: 54 TO	TAL REQUIRED
COMMON NAME / SCIENTIFIC NAME	SIZE	QUANTITY	PERCENTAGE
RED MAPLE / Acer rubrum	1" CALIPER	8	14.8%
COMMON PERSIMMON / Diospyros virginiana	1" CALIPER	4	7.4%
COMMON WITCHHAZEL / Hamamelis virginiana	1" CALIPER	4	7.4%
TULIPTREE / Liriodendron tulipifera	1" CALIPER	13	24.1%
BLACK GUM / Nyssa sylvatica	1" CALIPER	6	11.1%
WHITE OAK / Quercus alba	1" CALIPER	13	24.1%
RED OAK / Quercus rubra	1* CALIPER	6	11.1%
TOTALS		54	100%

PLANT LIST - REFORESTATION AREA #2			
REFORESTATION AREA - 0.25 ACRES			
CONTAINER GROWN 5,7, GALLON OR 1" CALIPER	R B&B, TYP. SPA	CING 15x15 FE	ET ON CENTER
REFORESTATION REQUIREMENTS OF 300 1" CALIF	ER TREES PER A	CRE: 75 TOT	AL REQUIRED
COMMON NAME / SCIENTIFIC NAME	SIZE	QUANTITY	PERCENTAGE
RED MAPLE / Acer rubrum	1" CALIPER	11	14.8% 8.0%
COMMON PERSIMMON / Diospyros virginiana	1" CALIPER	6	
COMMON WITCHHAZEL / Hamamelis virginiana	1" CALIPER	6	8.0%
TULIPTREE / Liriodendron tulipifera	1" CALIPER	18	24.0% 10.6%
BLACK GUM / Nyssa sylvatica	1" CALIPER	8	
WHITE OAK / Quercus alba	1 CALIPER	18	24.0%
RED OAK / Quercus rubra	1" CALIPER	8	10.6%
TOTALS		75	100%

PLANT LIST - REFORESTATION AREA #4					
REFORESTATION AREA - 0.44 ACRES TOTAL					
0.28 ACRES FALLS WITHIN LANDSCAPE BUFFER B AREA, 0.16 ACRES IS NOT PLANTED AT ALL.					
THIS PLANT LIST COVERS THE 0.16 ACRE PORTION OF REFORESTATION AREA #4 NOT PLANTED.					
SEE ADJACENT PLANT LIST FOR 0.28 ACRES PLANTED AS PART OF LANDSCAPE BUFFER.					
CONTAINER GROWN 5,7, GALLON OR 1" CALIPER B&B, TYP. SPACING 15x15 FEET ON CENTER					
REFORESTATION REQUIREMENTS OF 300 1" CALIPER TREES PER ACRE: 48 TOTAL REQUIRED					
COMMON NAME / SCIENTIFIC NAME	SIZE	QUANTITY	PERCENTAGE		
RED MAPLE / Acer rubrum	1" CALIPER	6	12.6%		
COMMON PERSIMMON / Diospyros virginiana	1" CALIPER	4	8.3%		
COMMON WITCHHAZEL / Hamamelis virginiana	1" CALIPER	4	8.3%		
TULIPTREE / Liriodendron tulipifera	1" CALIPER	12	25.0%		
BLACK GUM / Nyssa sylvatica	1" CALIPER	5	10.4%		
WHITE OAK / Quercus alba	1" CALIPER	12	25.0%		
RED OAK / Quercus rubra	1" CALIPER	5	10.4%		

100%

-4"x3" SPLIT RAILS

APPROX. 8'-0" ON CENTER

-4"x4" POSTS SPACED

FINISHED GRADE

A-4, DET-9

A-4, DET-3

48

 $\times\!\!\times\!\!\times\!\!\times$ 

RAILS SHALL BE HUNG WITH UNIFORM HEIGHT AND SPACING

APPROPRIATE INTERVAL, APPROXIMATELY 50 FEET APART.

WHERE A SPLIT RAIL FENCE OR EQUIVALENT IS USED TO PROTECT THE

VULNERABLE EDGE OF AN AFFORESTATION OR REFORESTATION AREA, FOREST

. SIGNS SHOULD BE ATTACHED NO HIGHER THAN THE TOP RAIL OF THE FENCE TO

AT THE TOP AND BOTTOM OF THE SIGN (NO LESS THAN TWO ATTACHEMENT

PPF - TREE PROTECTION FENCE (PERMANENT)

PERMANENT (SPLIT RAIL) TREE PROTECTION FENCE

FOR REFORESTATION AREAS

THE UPRIGHT POST USING A 3 INCH GALVANIZED RING THREAD NAIL AND WASHER

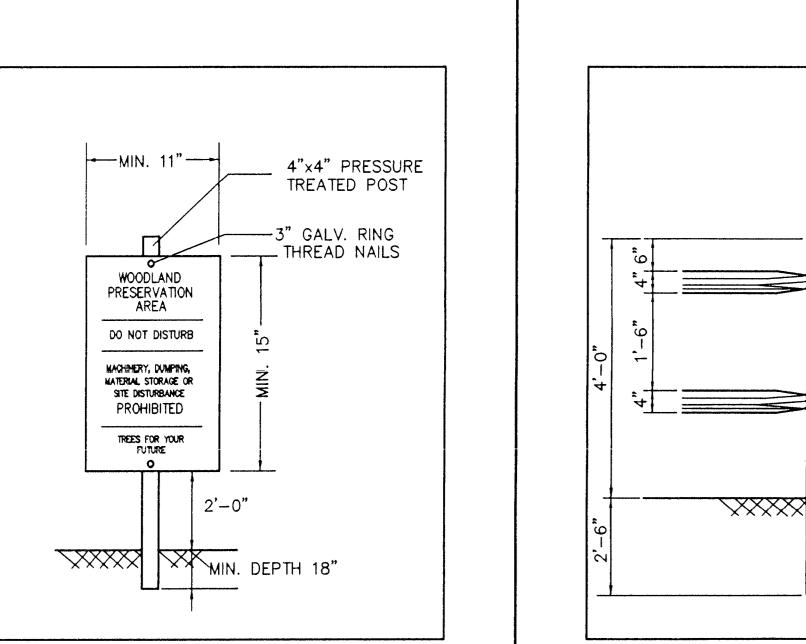
CONSERVATION SIGNAGE CAN BE MOUNTED ON THE FENCE POSTS AT AN

1. POSTS SHALL STAND PLUMB.

POINTS) OR EQUIVALENT.

PLANT LIST - PART OF REFORESTATION AREA #4		
0.28 PORTION OF 0.44 ACRES PLANTED WITH LANDSCAPE-SIZED PLANT MATERIAL AT A RATIO OF AT LEAST 75 PER ACRE = 21 PLANTS REQUIRED		
(MIX OF 2-1/2 CALIPER SHADE TREES, 1-1/2" CAL. ORNAMENTALS, 6'-8' TALL EVERGREENS)		
LANDSCAPE PLANT LIST		

LANDSCAPE PLANT LIST (BUFFER B - SCHEDULE 4.7-1 - SEE LANDSCAPE PLAN FOR MORE DETAIL)							
KEY	QUAN	BOTANICAL \ COMMON NAME	SIZE	SPACING	ROOT	NATIVE	NOTES
		DECIDUOUS TREES					
AR	3	Acer rubrum 'October Glory' \'October Glory' Red Maple	2 1/2"-3" Cal	As Shown	B&B	YES	
LS	4	Liquidambar styraciflua \ American Sweet Gum	2 1/2"-3" Cal	As Shown	B&B	YES	
QR	3	Quercus rubra \ Red Oak	2 1/2"-3" Cal	As Shown	B&B	YES	
		EVERGREEN TREES					
JV	4	Juniperus virginiana \ Eastern Red Cedar	6-8' HEIGHT	As Shown	B&B	YES	
PS	4	Pinus strobus \ White Pine	6-8' HEIGHT	As Shown	B&B	YES	
		ORNAMENTAL TREES					
CC	5	Cercis canadensis \ Eastern Redbud	1 1/2"-1 3/4" Cal.	As Shown	B&B	YES	
CF	4	Cornus florida \ Flowering Dogwood	1 1/2"-1 3/4" Cal.	As Shown	B&B	YES	
TOTAL	27						



TOTALS

1. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED. . SIGNS SHOULD BE PROPERLY MAINTAINED.

3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS. 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS

STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE. 6. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING. 7. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING

WOODLAND PRESERVATION AREA SIGN

WOODLAND

CONSERVATION

REFORESTATION

PROJECT

DISTURBANCE TO SEEDLING

PROHIBITED

Trees for your future

MIN. DEPTH 18"

SHRUBS OR TREES IS

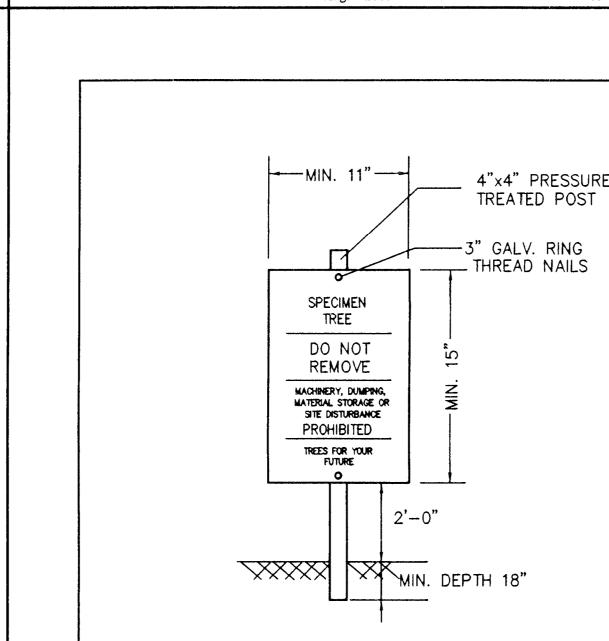
A-4, DET-1 August 2010

4"x4" PRESSURE

TREATED POST

·3" GALV. RING

- THREAD NAILS



 ATTACHMENT OF SIGNS TO TREES IS PROHIBITED. SIGNS SHOULD BE PROPERLY MAINTAINED.

3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS. 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS.

5. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING. SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

REFORESTATION AREA SIGN

I. ATTACHMENT OF SIGNS TO TREES IS PROHIBITED. SIGNS SHOULD BE PROPERLY MAINTAINED. 3. AVOID INJURY TO ROOTS WHEN PLACING POSTS FOR THE SIGNS. 4. SIGNS SHOULD BE POSTED TO BE VISIBLE TO ALL CONSTRUCTION PERSONNEL FROM ALL DIRECTIONS. SIGNS SHOULD BE INSTALLED AT SAME TIME AS TREE PROTECTION DEVICE. LOCATE SIGNS APPROXIMATELY EVERY 50 FEET ALONG FENCING.

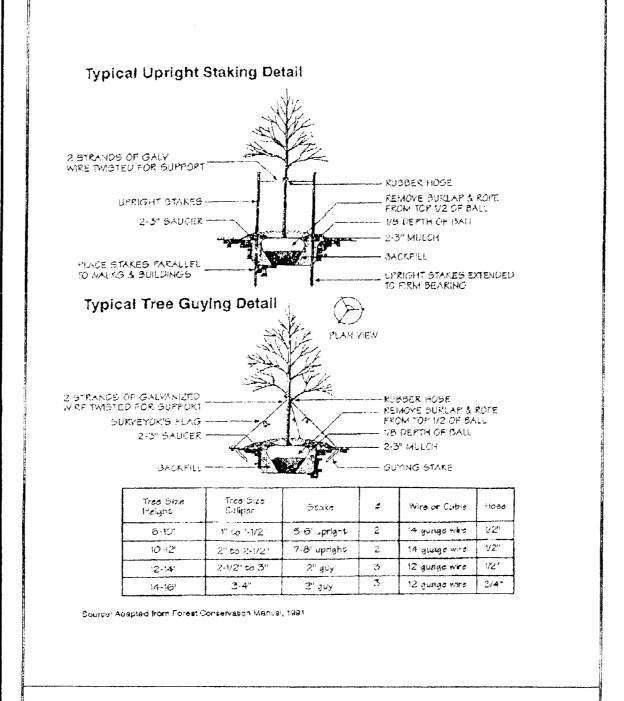
August 2010

SIGNS SHOULD BE IN PLACE IMMEDIATELY FOLLOWING

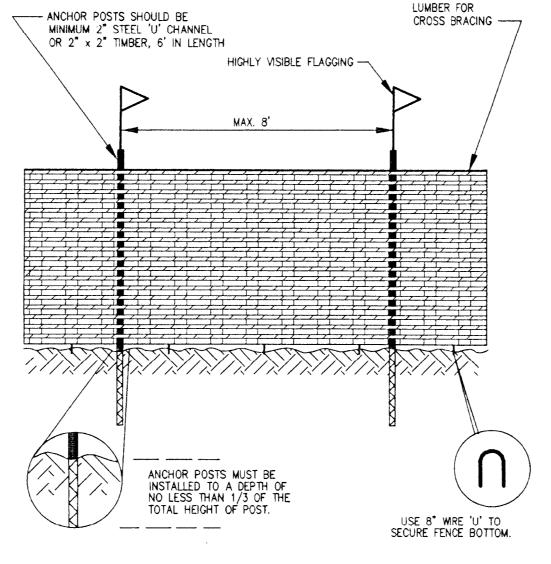
STAKE OUT OF L.O.D., AND REMAIN IN PLACE IN PERPETUITY.

SPECIMEN TREE SIGN

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Tree Staking and Guying Specifications



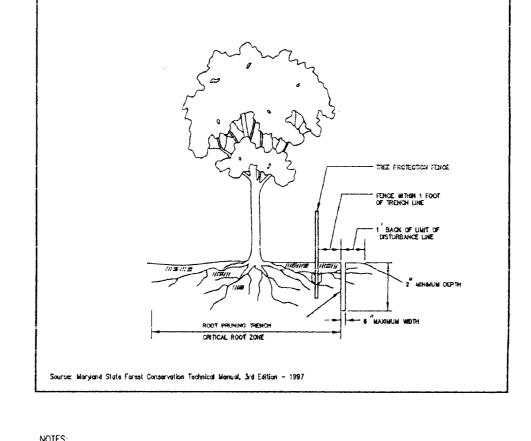
1. FOREST PROTECTION DEVICE ONLY. 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLED DEVICE 4. ROOT DAMAGE SHOULD BE AVOIDED. 5. PROTECTIVE SIGNAGE MAY ALSO BE USED. 6. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

BLAZE ORANGE PLASTIC MESH FENCING

STANDARD SYMBOL

**TPF - BLAZE ORANGE FENCE** TREE PROTECTION FENCE - TEMPORARY (PRESERVATION AREAS)

NOT TO SCALE

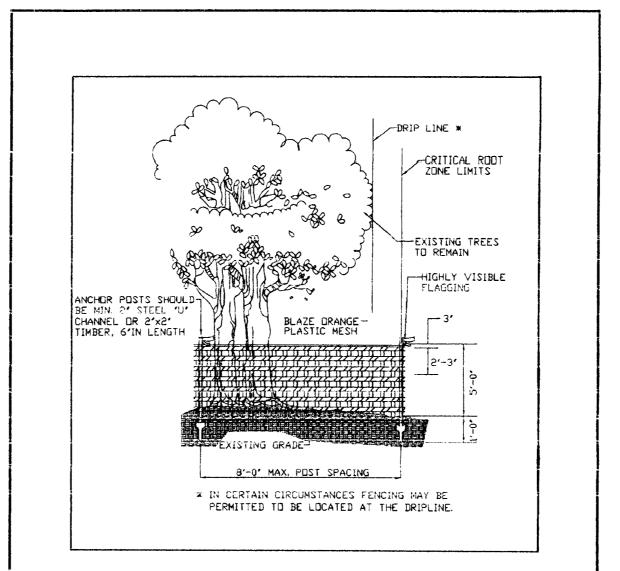


1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.

2. BOUNDARIES OF RETENTION AREAS SHOULD BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCHING. 3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.

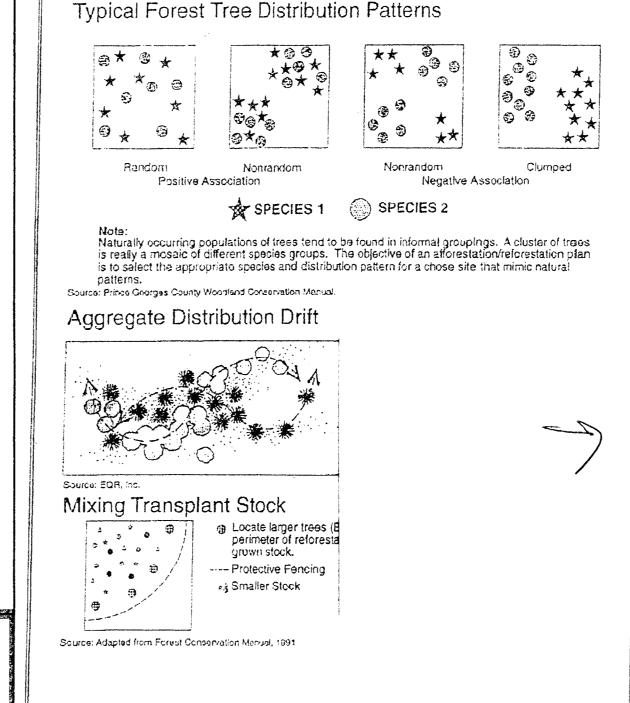
4. TRENCH SHOULD BE IMMEDIALTEY BACKFILLED WITH SOIL REMOVED OR OTHER HIGH 5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE FOUIPMENT

ROOT PRUNING



NOTES: (MUST BE INCLUDED WITH DETAIL) RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. 3. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES. 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS. DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION

> TEMPORARY FENCE PROTECTION DETAIL FOR WOODLAND PRESERVATION AREAS



**Planting Distribution Patterns** 

August 2010

TYPE II TREE CONSERVATION PLAN - GENERAL NOTES

1. THIS PLAN IS SUBMITTED TO FULFILL THE WOODLAND CONSERVATION REQUIREMENT FOR FINE GRADING SITE DEVELOPMENT PERMIT #5523-2013. IF PERMIT #5523-2013 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 FEE.

3. 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 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.

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 PLANT AT TIME OF CONTRACT SIGNING. FUTURE PROPERTY OWNERS ARE ALSO SUBJECT TO THIS

5. THE OWNERS OF THE PROPERTY SUJECT TO THIS TREE CONSERVATION PLAN ARE SOLEY RESPONSIBLE FOR CONFORMANCE TO THE REQUIREMENTS CONTAINED HEREIN. 6. THE PROPERTY IS WITHIN THE DEVELOPING TIER AND IS ZONED R-80

7. THE PROPERTY 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. THE PLAN IS NOT GRANDFATHERED UNDER CB-27-2010, SECTION 25-117(g).

TREE PRESERVATION AND RETENTION NOTES

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 SPCIFICALLY IDENTIFIED TO BE CLEARED ON THE

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 TPF'S MAY BEGIN.

13. 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.

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 ON THE APPROVED PLAN TO REMAIN UNDISTURBED. ONLY TREES OR PARTS THEREOF DESIGNATED BY THE COUNTY AS DEAD, DYING, OR HAZARDOUS MAY BE REMOVED. 16. A TREE IS CONSIDERED HAZARDOUS IF A CONDITION IS PRESENT WHICH LEADS A CERTIFIED

POTENTIAL TO FALL AND STRIKE A STRUCTURE, PARKING AREA, OR OTHER HIGH USE AREA AND

ARBORIST OR LICENSED TREE EXPERT TO BELIEVE THAT THE TREE OR A PORTION OF THE TREE HAS A

RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE 17. DURING THE INITIAL STAGES OF CLEARING AND GRADING, IF HAZARDOUS TREE 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 THI 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 MATERIAL THAT WOULD INHIBIT SPROUTING. 18. IF A TREE OR TREES BECOMES 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 EXPERET 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 PROPERT 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 SUMITTED TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

IF CORRECTIVE PRUNING MAY ALLEMATE A HAZARDOUS CONDITION, THE CERTIFIED ARBORITS 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 CONTACT WITH THE GROUND, THUS ENCOURAGING DECOMPOSITION. THE SMALLER MATERIALS SHALL BE PLACED INTO BRUSH PILES THAT WILL SERVED 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 LIMITES OF DISTURBANCE ON A TCP2. THE WORK IS REQUIRED TO BE CONDUCTED BY A 19. WORK ON THIS PROJECT WILL BE INITIATED IN SEVERAL PHASES. ALL TEMPORARY TPFs REQUIRED

FOR A GIVEN PHASE SHALL BE INSTALLED PRIOR TO ANY DISBURBANCE WITHIN THAT PHASE OF WORK,

AFFORESTATION AND REFORESTATION NOTES ALL AFFORESTATION AND REFORESTATION BONDS, BASED ON SQUARE FOOTAGE, SHALL BE POSTED WITH THE COUNTRY 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. SEEDLING PLANTING IS TO OCCUR FROM NOVEMBER THROUGH MAY 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 DETAILED MAINENANCE 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 REE CONSERVATION PLAN. PLANTING SHALL THEN BE ACCOPLISHED 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

REFORESTATION AREAS SHALL NOT BE MOWED. THE MANAGEMENT OF COMPETING VEGETATION AROUND INDIVIDUAL TREES AND THE REMOVAL OF NOXIOUS, INVASIVE, AND NO-NATIVE

INSPECTOR AND THE COUNTY.

Owner or Owners Representative

Contract Purchaser

A-4. DET-12

& NOREH .

The state of the s

/ICHAEL'''A:''MITCHELL. RL

ANDSCAPE ARCHITECT #31

mmitchell@techaroupinc.ne

VEGETATION WITHIN THE REFORESTATION AREAS IS ACCEPTABLE. ALL REQUIRED TEMPORARY TREE PROTECTION FENCING SHALL BE INSTALLED PRIOR TO THE LEARING 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 ADN GRADING OF THE SITE. FAILURE TO INSTALL AND MAINTAIN TEMPORARY OR PERMANENT TREE PROTECTIVE FENCING IS A VIOLATION OF THIS TCP 2.

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.

THE COUNTY INSPECTOR SHALL BE NOTIFIED PRIOR TO SOIL PREPARATION OR INITIATION OF ANY TREE PLANTING ON THIS SITE.

AT TIME OF ISSUANCE OF THE FIRST PERMIT, THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE M-NCPPC PLANNING DEPARTMENT REGARDING THE CONTRACTOR RESPONSIBILE 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.

Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

OWNER/DEVELOPER

THE RYLAND GROUP INC.

14280 PARK MEADOW DRIVE, SUITE 108

CHANTILLY, VIRGINIA 20151

TEL: 703-449-6500

FAX: 703-502-5262

CONTACT PERSON: DAVID RETTEW

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. PROTECTION OF REFORESTATION AND AFFORESTATION AREAS BY INDIVIDUAL HOMEOWNERS We THE RYLLIG GWY, WC hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. REFORESTATION FENCING AND SIGNAGE SHALL REMAIN IN PLACE IN ACCORDANCE WITH THE APPROVED TYPE 2 TREE CONSERVATION PLAN. 8.20.13 REFORESTATION AREAS SHALL NOT BE MOWED; HOWEVER, THE MANAGEMENT OF COMPETING

INDIVIDUAL TREES IS ACCEPTABLE.

AFFORESTATION AND REFORESTATION - PLANTING SPECIFICATION NOTES

3. PLANT QUALITY STANDARDS: THE PLANTS SELECTED SHALL BE HEALTHY AND STURDY

REPRESENTATIVES 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

PLANTS THAT DO NOT HAVE AN ABUNDANCE OF WELL DEVELOPED TERMINAL BUDS ON THE

REMOVAL FROM THE GREEN HOUSE, AND PLANTED IMMEDIATELY UPON RECEIPT BY THE

PLANTS SHALL BE SHIPPED TO THE NURSERY IMMEDIATELY AFTER LIFTING FROM THE FIELD OR

IF THE PLANTS CANNOT BE PLANTED IMMEDIATELY AFTER DELIVERY TO THE REFORESTATION SITE,

SUITABLE MATERIAL AND SHALL BE MAINTAINED THROUGH PERIODIC WATERING, UNTIL THE TIME OF

QUANTITY THAT CAN BE PLANTED IN A DAY. SEEDLINGS, ONCE REMOVED FROM THE NURSERY OR

TO SPRING BUDDING. 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

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

4. PLANT HANDLING: THE QUANTITY OF SEEDLINGS TAKEN TO THE FIELD SHALL NOT EXCEED THE

5. TIMING OF PLANTING: THE BEST TIME TO PLANT SEEDLINGS IS WHILE THEY ARE DORMANT, PRIOR

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

SEEDLING PLANTING: TREE SEEDLINGS SHALL BE HAND PLANTED USING A DIBBLE BAR OR

PLANTED AT A DEPTH WHERE THEIR ROOTS LIE JUST BELOW THE GROUND SURFACE. AIR

PLANT BY ANOTHER METHOD, THE PREPARER OF THIS TREE CONSERVATION PLAN MUST BE

SPACING: SEE PLANT SCHEDULE AND/OR PLANTING PLAN FOR SPACING REQUIREMENTS. ALSO

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

(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 RECOMMENDED FOR CORRECTIONS OF SOIL TEXTURE, pH, MAGNESIUM, PHOSPHORUS, POTASSIUM,

SOIL IMPROVEMENT MEASURES: THE SOIL SHALL THEN BE IMPROVED ACCORDING TO THE

SUBMITTED FOR TESTING TO A PRIVATE COMPANY. THE COMPANY OF CHOICE SHALL MAKE

PROVIDES ONE SOIL SAMPLE FOR EACH AREA THAT APPEARS TO HAVE A DIFFERENT SOIL TYPE

FENCING AND SIGNAGE: FINAL PROTECTIVE FENCING SHALL BE PLACED ON THE VISIBLE AND/OR DEVELOPMENT SIDE OF THE 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

12. MULCHING: APPLY TWO-INCH THICK LAYER OF WOODCHIP OR SHREDDED HARDWOOD MULCH (AS

13. GROUNDCOVER ESTABLISHMENT: THE REMAINING DISTURBED AREA BETWEEN SEEDLING PLANTING

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

THIS PLAN PROPOSES 1" CALIPER PLANT MATERIAL UP TO LANDSCAPE-SIZED PLANT MATERIAL

(2-1/2" CALIPER) SHADE TREES,. PLANT MATERIAL TO BE SOURCED FROM LOCAL NURSERIES.

SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER) SEE NOTE 1 BELOW

CONTROL OF UNDESIREABLE VEGETATION AS NEEDED (1 TIME IN JUNE AND 1 TIME IN

CONTROL OF UNDESIREABLE VEGETATION IF NEEDED (1 TIME IN MAY AND 1 TIME IN AUGUST

SURVIVAL CHECK: CHECK PLANTED STOCK AGAINST PLANT LIST (OR AS-BUILT) BY

SUBMIT FIELD DATA FORMS (CONDITION CHECK SHEETS) TO OWNER AFTER EACH

WALKING THE SITE AND TAKING INVENTORY. PLANTS MUST SHOW VITALITY.

REINFORCEMENT PLANTING: REPLACE DEAD OR MISSING PLANTS IN SUFFICIENT

THE NUMBER ORIGINALLY PLANTED. IF A PARTICULAR SPECIES SUFFERES

UNUSUALLY HIGH MORTALITY, REPLACE WITH AN ALTERNATIVE PLANT TYPE.

BE DONE ON AN AS NEEDED BASIS. SPECIAL RETURN OPERATIONS OR

RECOMMENDATIONS WILL BE CONDUCTED ON AN AS NEEDED BASIS.

POST DEVELOPMENT NOTES - FOR RETAINED WOODLANDS AND/OR SPECIMEN TREES

OBTAIN A WRITTEN STATEMENT FROM A CERTIFIED ARBORIST OR LICENSED TREE EXPERT

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

IDENTIFYING THE HAZARDOUS CONDITION AND THE PROPOSED CORRECTIVE MEASURES PRIOR TO

HANDOUT "GUIDANCE FOR PRINCE GEORGE'S COUNTY PROPERTY OWNERS, PRESERVATION OF

REMOVAL OR GRINDING OF THE STUMPS IN THE WOODLAND CONSERVATION AREA IS NOT

MMEDIATELY. THE CONDITION OF THE AREA SHALL BE FULLY DOCUMENTED THROUGH

TO THE INSPECTOR FOR DOCUMENTATION OF THE DAMAGE.

BY A LICENSED TREE EXPERT.

HAVING THE WORK CONDUCTED. AFTER PROPER DOCUMENTATION HAS BEEN COMPLETED PER THE

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

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

PHOTOGRAPHS PRIOR TO CORRECTIVE ACTION BEING TAKEN. THE PHOTOS SHALL BE SUBMITTED

TREE WORK TO BE COMPLETED WITHIN A ROAD RIGHT-OF-WAY REQUIRES A PERMIT FROM THE

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.

2) INCHES DIAMETER SHALL BE CUT TO ALLOW CONTACT WITH THE GROUND, THUS ENCOURAGING

ALL MATERIAL FROM THESE NOXIOUS, INVASIVE, AND NON-NATIVE PLANTS GREATER THAN TWO

THE USE OF BROADCAST SPRAYING OF HERBICIDES IS NOT PERMITTED. HOWEVER, THE USE OF

VEGETATION AND REMOVAL OF NOXIOUS, INVASIVE, AND NON-NATIVE VEGETATION AROUND

HERBICIDES TO DISCOURAGE RE-SPROUTING OF INVASIVE, NOXIOUS, OR NON-NATIVE PLANTS IS

MARYLAND DEPARTMENT OF NATURAL RESOURCES UNLESS THE TREE REMOVAL IS SHOWN WITHIN THE APPROVED LIMITS OF DISTURBANCE ON A TCP 2. THE WORK IS REQUIRED TO BE CONDUCTED

QUANTITY TO BRING THE TOTAL NUMBER OF LIVE PLANTS TO AT LEAST 75% OF

MISCELLANEOUS: FERTILIZATION OR WATERING DURING YEARS 1 THROUGH 3 WILL

MUST BE SUPPLEMENTED WITH ADDITIONAL SEEDLINGS TO REACH THE REQUIRED NUMBER AT TIME

SITES SHALL BE SEEDED AND STABILIZED WITH WHITE CLOVER AT THE RATE OF 5 LBS./ACRE.

REFER TO THE PLANTING LAYOUT DETAIL FOR A DESCRIPTION OF THE GENERAL PLANTING THEORY.

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 BENT. MOIST SOIL SHOULD THEN BE PACKED FIRMLY AROUND THE ROOTS. SEEDLINGS SHALL BE

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

TEMPORARY STORAGE AREA, SHALL BE PLANTED IMMEDIATELY.

CONTACTED AND GIVE HIS APPROVAL BEFORE PLANTING MAY BEGIN.

QUANTITY: SEE REFORESTATION PLANT LIST THIS PAGE.

2. TYPE: SEE REFORESTATION PLANT LIST THIS PAGE.

AUXILIARY/FIBROUS ROOTS) SHALL BE PRESENT.

LEADERS AND BRANCHES SHALL BE REJECTED.

AND STABILIZATION OF PLANTING AREAS.

CALCIUM, AND ORGANIC MATTER.

NOTED) TO EACH PLANTING SITE.

16. SOURCE OF REFORESTATION PLANT MATERIAL:

SEPTEMBER MINIMUM).

RECOMMENDATIONS MADE BY THE TESTING COMPANY.

14. MOWING: NO MOWING SHALL BE ALLOWED IN ANY PLANTING AREA.

FOUR-YEAR MANAGEMENT PLAN FOR RE/AFFORESTATION AREAS

SITE PREPARATION AND TREE PLANTING

WATERING IS NEEDED (2 TIMES A MONTH)

YEAR 2-3: REINFORCEMENT PLANTING IS NEEDED (SEE NOTE 2 BELOW)

SURVIVAL CHECK (SEPTEMBER-NOVEMBER)

SURVIVAL CHECK ONCE ANNUALLY (SEPTEMBER-NOVEMBER)

REINFORCEMENT PLANTING IF NEEDED. (SEE NOTE 2 BELOW)

INSPECTION. REMOVE ALL DEAD PLANTS.

11. PLANTING METHOD: CONSULT THE PLANTING DETAIL(S) SHOWN ON THIS PLAN.

LANDSCAPE CONTRACTOR.

QUALIFIED PROFESSIONAL CERTIFICATION This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

hereby acknowledge that we are aware of this Type 2

MACENTO Date: 7-29-13 Michael A. Mitchell, RLA, AICP, LEED AP 1120 Benfield Blvd., Suite C Millersville, MD 21108 410-987-3450 mmitchell@techgroupinc.net

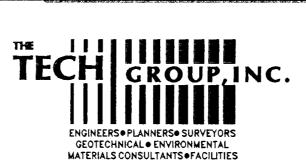
M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP 2 - 022 - 13 Church School by

TREE CONSERVATION PLAN - TYPE II **NOTES AND DETAILS** 

THE VINEYARDS II LOTS 1-64
PRINCE GEORGE'S COUNTY MARYLAND

TAX MAP 134, PARCEL 58 NOT TO SCALE \_ SHEET <u>6</u> OF <u>6</u>

August 2010 A-4, DET-2 **REVISIONS** DESIGNED DESCRIPTIONS FA/MAM APPROVED DBH



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