

Required Type II Tree Conservation Plan Notes

- 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.
- The Department of Public Works and Transportation (DPW&T) shall be contacted prior to the start of any work on the site to address implementation of woodland conservation measures shown on this plan.
- 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 the sale of the property the owner, developer or owners representative shall notify the purchaser of the property of any Woodland Conservation Areas.
- All appropriate bonds shall 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.
- All required off-site mitigation shall be identified on an approved TPCII for the off-site location and 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.
- The location of all Tree Protective Devices (TPDs) shown on this Plan shall be flagged or staked in the field prior to the preconstruction meeting with the Sediment and Erosion Control Inspector from DPW&T. 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.

- Woodland Conservation - Tree Save Areas and/or Reforestation Areas shall be posted as shown at the same time as Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place.
- All tree planting for woodland replacement, reforestation or afforestation will be completed prior to Use and Occupancy Permit. Failure to establish the woodland replacement, reforestation or afforestation within the prescribed time frame will result in the forfeiture of the Reforestation Bond and/or a violation of this Plan including the associated \$1.50 per square foot penalty unless a written extension is approved by the DPW&T Inspector.
- The DPW&T Inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- Results of survival checks for all tree plantings shall be reported to the DPW&T Inspector for the site and M-NCPPC, Environmental Planning Section.
- Prior to the issuance on any permits the contractor responsible for soil preparation, site preparation, tree planting and tree maintenance must be identified.

TRIANGLE/COLLINGBROOK TREE CONSERVATION PLAN TYPE II

INDEX:

- COVER SHEET
- 2-10. TREE CONSERVATION PLAN TYPE II.
- 11, 12. NOTES AND DETAILS.

PHASE 1 LIMITS OF BORROW AREA
SEDIMENT CONTROL
PLAN No. 444-04

PHASE 1 LIMITS OF EXPANDED LIMITS
SEDIMENT CONTROL
PLAN No. 10-05

- LEGEND:**
- PMA--- PRIMARY MANAGEMENT AREA (PMA)
 - UNMITIGATED NOISE CONTOUR---
 - SB--- STREAM BUFFER
 - 100 YEAR FLOODPLAIN---
 - FP BRL--- FLOODPLAIN BUILDING RESTRICTION LINE
 - EDGE OF WATER OF THE US---
 - EXISTING TREELINE---
 - T38 SPECIMEN TREE TO REMAIN
 - T38 SPECIMEN TREE TO BE REMOVED
 - WETLANDS---
 - WB--- WETLANDS BUFFER
 - L--- STORM DRAIN HEADWALL
 - FOREST SAVED, BUT CONSIDERED CLEARED---
 - WOODLAND PRESERVATION---
 - FOREST IN FLOODPLAIN, SAVED BUT NOT COUNTED---
 - AFFORESTATION/ REFORESTATION---
 - SILT FENCE---

CO-OWNER/DEVELOPER
PDC COLLINGBROOK, L.L.C.
5840 BANNEKER ROAD,
SUITE 110
COLUMBIA, MD 21044
410-740-9863
ATTN: MICHAEL CARNOCK

CO-OWNER/DEVELOPER
LONERGAN DEVELOPMENT, INC.
16912 QUEEN ANNE BRIDGE ROAD
MITCHELLVILLE, MARYLAND 20716
301-430-0700
ATTN: ED LONERGAN

NOTE: ALL REFORESTATION AND ASSOCIATED FENCING SHALL BE INSTALLED PRIOR TO THE ISSUANCE OF THE FIRST BUILDING PERMIT IN EACH PHASE. A CERTIFICATION PREPARED BY A QUALIFIED PROFESSIONAL MAY BE USED TO PROVIDE VERIFICATION THAT THE REFORESTATION HAS BEEN COMPLETED. IT MUST INCLUDE, AT A MINIMUM, PHOTOS OF THE REFORESTATION AREAS AND THE ASSOCIATED FENCING ON EACH LOT WITH LABELS ON THE PHOTOS IDENTIFYING THE LOCATIONS AND A PLAN SHOWING THE LOCATIONS WHERE THE PHOTOS WERE TAKEN.

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

NO.	REVISION	BY	DATE	CHECKED	DATE
08	ADDED 16A	KVC	3/16/12	DESIGNED	NEG
1	ADDED PHASING TO PHASE 3	KVC	12/6/2011	TECHNICIAN	NEG
				PLAN LOCATION	1007/ENG/ENV/TPC2/COVER_S1.SHT
				PEN TABLE	X LEVEL SYMBOLOLOGY

SCALE

1"=200'

JOB NO.

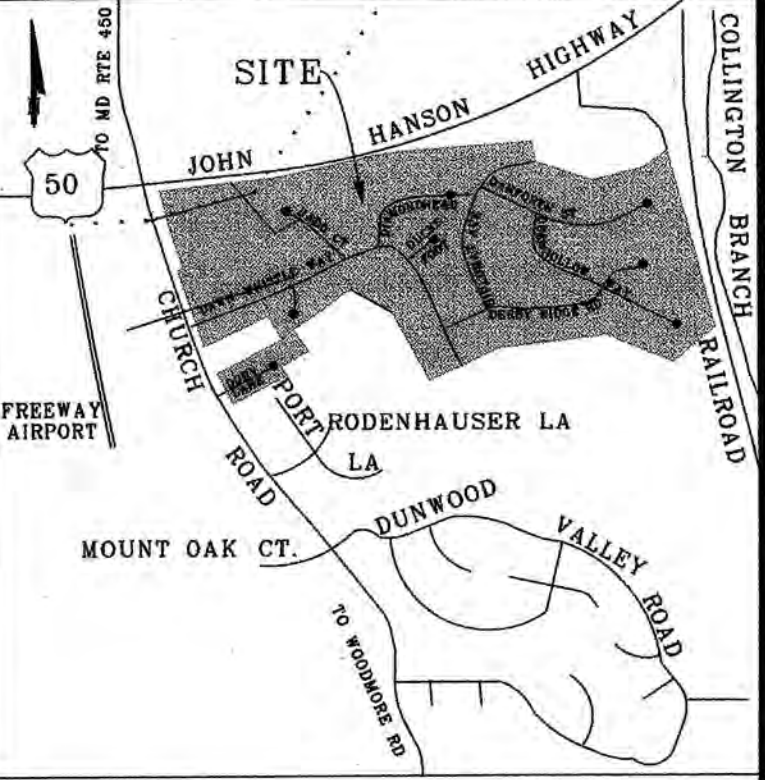
1007

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK

QUEEN ANN (7TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

FOREST TO REMAIN	TOTAL AREA
PHASE	
WR - A	1 & 2-6.28 AC 3B2-2.23 AC
WR - B	1 & 2
WR - C	1 & 2
WR - D	1 & 2
WR - E	1 & 2-3.0 AC 3E-4.05 AC
WR - F	3B1-5.41 AC 3D-3.78 AC
WR - G	3B1-0.41 AC 3B2-0.89 AC
WR - H	1 & 2
WR - I	3E
WR - J	3E
WR - K	1 & 2
WR - L	3B1-3.51 AC 3D-1.0 AC
TOTAL	42.61 AC



VICINITY MAP
SCALE 1"=2000'
PERMIT USE FOR ADC MAP 20708151

WOODLAND SAVED
BUT CONSIDERED CLEARED

AREA C1	A- 0.01 AC.
AREA C2	A- 0.16 AC.
AREA C3	A- 0.12 AC.
AREA C4	A- 0.04 AC.
AREA C5	A- 0.19 AC.
AREA C9	A- 0.29 AC.
AREA C10	A- 0.33 AC.
AREA C12	A- 0.04 AC.
AREA C15	A- 0.04 AC.
AREA C17	A- 0.02 AC.
TOTAL	A- 1.24 AC.

WOODLAND CLEARED ON NET TRACT
(NOT IN 100-YEAR FLOODPLAIN)

TOTAL:	A- 106.71
WOODLAND CLEARED IN 100-YEAR FLOODPLAIN	
TOTAL:	A- 0.41 AC.

M-NCPPC
PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT
ENVIRONMENTAL PLANNING SECTION
APPROVAL
TREE CONSERVATION PLAN
TCP II/100/03

APPROVED BY	DATE
01 J.M.	6-23-03
02 J.M.	7-28-04
03 J.M.	12-08-04
04 L.S.	6-03-04
05 L.S.	2-23-06
06 K.S.	5-6-09
07 MEGAN REISER	2-13-12
08 MEGAN K. REISER	4/10/12

AREA	PHASE	AREA
1	3D- 2.5 AC 3E-1.60 AC	4.10 AC
2	3C-0.22 AC 3D-0.73 AC	0.95 AC
3	3B1	0.47 AC
4	3B1	2.27 AC
5	3B1-1.96 AC 3D-2.0 AC	3.96 AC
6	1 & 2	1.86 AC
7	1 & 2	0.39 AC
8	3C-2.50 AC 3D-1.06 AC 3C-0.86 AC 3E-1.01 AC	3.26 AC
9		2.93 AC
11	3B2	1.15 AC
12	1 & 2	0.11 AC
13	1 & 2	0.40 AC
14	3D	0.47 AC
TOTAL:		22.32 AC

M-NCPPC APPROVALS
PROJECT NAME: Collington, Lot 167
PROJECT NUMBER: DSP-12006
DATE: 4/10/12
APPROVED BY: [Signature]
DATE: 4/10/12

APPROVED PLAN

DSP-12006

PRINTED ON

APR 12 2012

PETRA ENGINEERING LLC

Woodland Conservation Worksheet for Prince George's County, Maryland

Zone: 1
Include acreages only in columns for which there is a corresponding zone.

Property Description or Subdivision Name: Collington
Break-even Point (preservation acres) = 73.23
Acres of Net Tract clearing permitted w/o reforest = 76.07

Woodland Conservation Requirement Calculations:
Existing Woodland on Net Tract (acres) = 19.90
Existing Woodland in Floodplain (acres) = 54.23
Woodland Conservation Threshold (NTA) = 25.00%
Smaller of a or c = 95.00

Phase	Phase 1A	Phase 1B	Phase 1C	Phase 1D	Phase 1E	Phase 1F	Phase 1G	Phase 1H	Phase 1I	Phase 1J	Phase 1K	Phase 1L	Phase 1M	Phase 1N	Phase 1O	Phase 1P	Phase 1Q	Phase 1R	Phase 1S	Phase 1T	Phase 1U	Phase 1V	Phase 1W	Phase 1X	Phase 1Y	Phase 1Z	Total
1	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90	19.90

Woodland Conservation Provided:
Preservation = 19.90
Reforestation = 19.90
Total Woodland Conservation Provided = 39.80

Woodland saved on this phase but not counted:
Existing Net Tract Woodland in later phases = 0.00
Shrubs = 0.00

Prepared by: Karen V. Carpenter
License Number: MD RLA 527

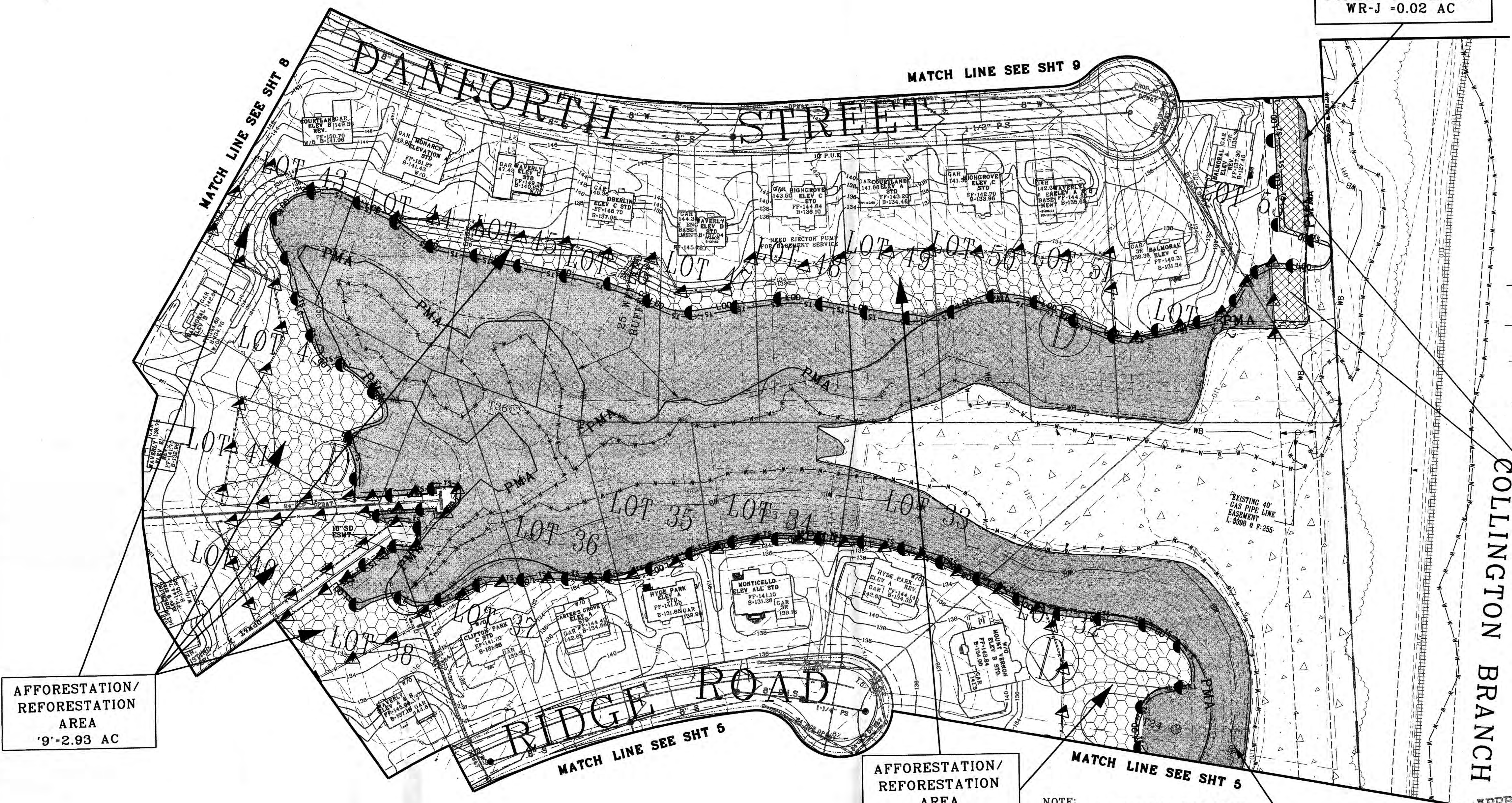
Signature: [Signature]
Date: 4/10/12

STATE OF MARYLAND
LAND & NATURAL RESOURCES
DEPARTMENT OF THE ENVIRONMENT
DIVISION OF PLANNING & DESIGN

APPROVED BY: [Signature]
DATE: 4/10/12



- LEGEND:**
- PMA — PRIMARY MANAGEMENT AREA (PMA)
 - UNMITIGATED NOISE CONTOUR
 - SB — STREAM BUFFER
 - FP — 100 YEAR FLOODPLAIN
 - FP BRL — FLOODPLAIN BUILDING RESTRICTION LINE
 - E — EDGE OF WATER OF THE US
 - EX — EXISTING TREELINE
 - T38 — SPECIMEN TREE TO REMAIN
 - T38 — SPECIMEN TREE TO BE REMOVED
 - W — WETLANDS
 - WB — WETLANDS BUFFER
 - FSA — FOREST SAVED, BUT CONSIDERED CLEARED
 - A — AFFORESTATION/ REFORESTATION AREA
 - FIF — FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
 - WLP — WOODLAND PRESERVATION
 - L — LIMITS OF DISTURBANCE
 - SDH — STORM DRAIN HEADWALL
 - TSS — TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGNS
 - P — PERMANENT TREE SAVE SIGN TO BE INSTALLED POST CONSTRUCTION
 - TSS — TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SILT FENCE DETAIL)
 - A — AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)
 - L — LIMITS OF CRITICAL ROOT ZONE
 - RP — ROOT PRUNING LINE



FOREST TO REMAIN
WR-J -0.02 AC

FOREST SAVED, BUT
CONSIDERED
CLEARED
'C10'-0.33 AC

AFFORESTATION/
REFORESTATION
AREA
'9'-2.93 AC

AFFORESTATION/
REFORESTATION
AREA
'9'-2.93 AC

FOREST TO REMAIN
WR-E = 11.55 AC

NOTE:
IMPACT TO THE PMA HAS BEEN
REDUCED BY REVISING THE
GRADING FOR THE HOUSES ON
LOTS 31 & 32, BLOCK D.

LOTS 33-37, BLOCK D HAVE LESS
THAN 40' REAR YARD. THE LIMITS
OF DISTURBANCE IS BOUNDED
BY A PMA DUE TO STEEP SLOPES

M-NCPPC APPROVALS

PROJECT NAME	Collington Lot 16A
PROJECT NUMBER	DOR 12006
APPROVED BY	DD
DATE	4/10/12
REVISION	ERS 4/10/12

M-NCPPC
PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT
ENVIRONMENTAL PLANNING SECTION
APPROVAL
TREE CONSERVATION PLAN
TCP II/100/03

APPROVED BY	DATE
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06 K.S.	5-6-09
07 MEGAN REISER	2-13-12
08 Megan Reiser	4/10/12

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APR 12 2012
PETRA ENGINEERING LLC

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

NO	REVISION	BY	DATE
1			

DATE	MARCH 2009
DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC
PLAN LOCATION	1007/ENG/ENV/TCP2/S10.SHT
PEN TABLE	X LEVEL SYMBOLLOGY

SCALE	1"=50'
JOB NO.	1007



TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD

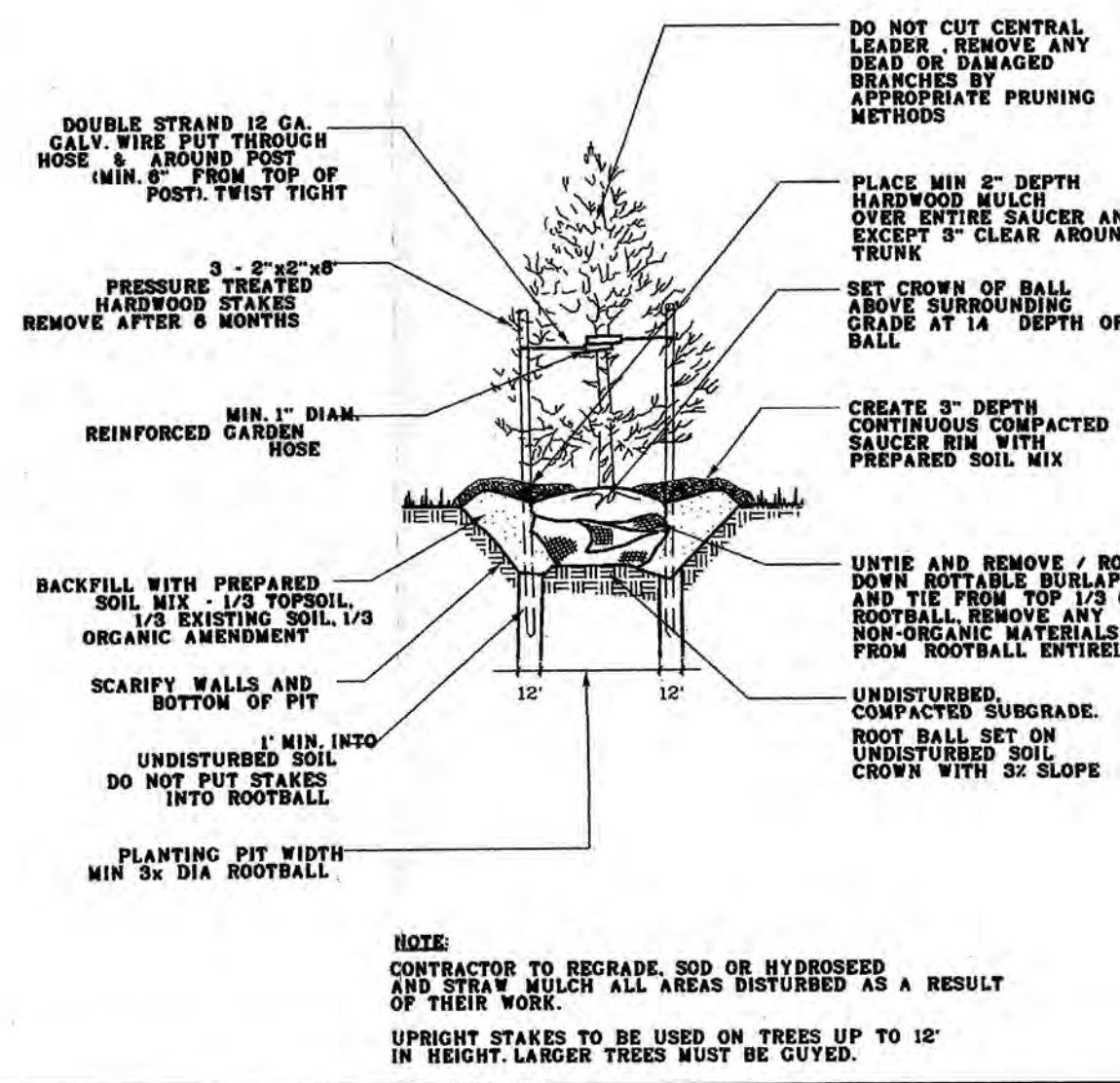
10 OF
12

Required Type II Tree Conservation Plan Notes

- 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 \$150 per square foot mitigation fee.
- The Department of Public Works and Transportation (DPW&T) shall be contacted prior to the start of any work on the site to address implementation of woodland conservation measures shown on this plan.
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- All appropriate bonds shall 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.
- All required off-site mitigation shall be identified on an approved TCPI for the off-site location and 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.
- The location of all Tree Protective Devices (TPDs) shown on this plan shall be flagged or staked in the field prior to the pre-construction meeting with the Sediment and Erosion Control Inspector from DPW&T. 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 clearing of trees may begin before final approval of TPD installation.
- Woodland Conservation - Tree Save Areas and/or Reforestation Areas shall be posted as shown at the same time as Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place.
- All tree planting for woodland replacement, reforestation or afforestation will be completed prior to Use and Occupancy Permit. Failure to establish the woodland replacement, reforestation or afforestation within the prescribed time frame will result in the forfeiture of the Reforestation Bond and/or a violation of this Plan including the associated \$150 per square foot penalty unless a written extension is approved by the DPW&T Inspector.
- The DPW&T Inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- Results of survival checks for all tree plantings shall be reported to the DPW&T Inspector for the site and M-NCPPC, Environmental Planning Section.
- Prior to the issuance on any permits the contractor responsible for soil preparation, site preparation, tree planting and tree maintenance must be identified.

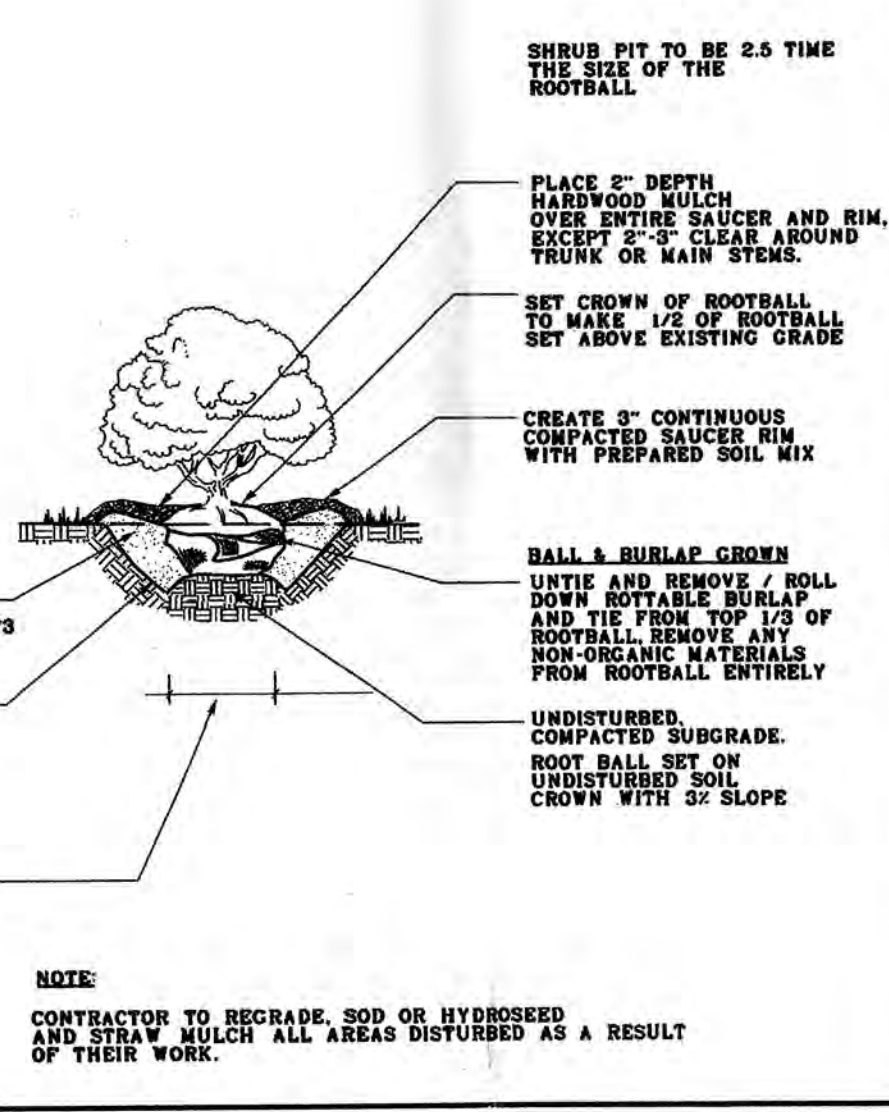
CONIFEROUS TREE PLANTING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE



REFORESTATION INSPECTION AND PLANTING NARRATIVE

- REFORESTATION INSPECTION SCHEDULE**
THERE SHALL BE FIVE INSPECTIONS FOR FOREST CONSERVATION.
 - THE FIRST INSPECTION SHALL OCCUR AFTER FLAGGING/ STAKING OF THE L.O.D. AND /OR STREAM BUFFERS, AND PRIOR TO ANY CLEARING, GRADING OR SEDIMENT CONTROL MEASURES. THIS INSPECTION IS TO ADDRESS THE ISSUES OF TREE PROTECTION AND SEDIMENT CONTROL. THE DEVELOPER AND REPRESENTATIVES FROM M-NCPPC AND DPW&T WILL MEET TO WALK THE PROPOSED LIMITS OF DISTURBANCE AND DETERMINE THE FINAL LOCATIONS OF SEDIMENT CONTROL DEVICES AND TREE PROTECTION DEVICES.
 - THE SECOND INSPECTION SHALL OCCUR AFTER PLACEMENT OF SEDIMENT CONTROL DEVICES AND TREE PROTECTION DEVICES, AND PRIOR TO CLEARING AND GRADING. THIS INSPECTION IS TO DETERMINE THE COMPLETION AND ADEQUACY OF PROTECTIVE MEASURES.
 - THE THIRD INSPECTION SHALL OCCUR PRIOR TO PLANTING IN REFORESTATION AREAS. THIS INSPECTION IS TO MAKE FINAL DECISIONS REGARDING THE BEST IMPLEMENTATION OF THE PLANTING PLAN INCLUDING, BUT NOT LIMITED TO, THE FINAL PLACEMENT AND SELECTION OF PLANT SPECIES, DETERMINATION OF THE REGENERATION POTENTIAL OF EXISTING PLANTS, AND A DETERMINATION OF THE BEST EDGE PLANTING TREATMENT. THE PURPOSE AND DELIVERY OF PLANT MATERIALS SHOULD NOT BE MADE UNTIL AFTER THE INSPECTION SINCE A DETERMINATION MAY BE MADE IN THE FIELD TO ALTER THE CHOICE OF PLANT MATERIAL.
 - THE FOURTH INSPECTION SHALL OCCUR IMMEDIATELY FOLLOWING THE COMPLETION OF THE OF THE PLANTING. THIS INSPECTION IS TO DETERMINE THE COMPLETION AND ADEQUACY OF THE PLANTING.
 - THE FIFTH AND FINAL INSPECTION SHALL OCCUR AT THE COMPLETION OF THE TWO-YEAR MAINTENANCE PROGRAM. THE PURPOSE OF THIS INSPECTION IS TO DETERMINE THE SUCCESS OF THE REFORESTATION PROGRAM (AND DEER MANAGEMENT PROGRAM). A FINAL FURTHER MAINTENANCE PROGRAM ARE NECESSARY.
- PRE-PLANTING CONSIDERATIONS**
 - IN AREAS WITH SUBSTANTIAL GROWTH OF INVASIVE GROUND COVER SPECIES, MEASURES SHALL BE TAKEN TO REMOVE INVASIVE SPECIES PRIOR TO PLANTING. THE BEST PRACTICES FOR THE REMOVAL OF INVASIVE SPECIES SHALL BE USED. THE REMOVAL OF INVASIVE SPECIES SHALL BE LIMITED TO THE REMOVAL OF INVASIVE SPECIES. THE USE OF CHEMICAL APPROVAL BY M-NCPPC STAFF. WHERE PERIODIC MOVING WILL OCCUR AS A WEED CONTROL MEASURE, THE TYPICAL TREE PLANTING DISTRIBUTION PATTERN SHOULD BE MODIFIED SO AS TO ALLOW ACCESS BY MOVING EQUIPMENT WITHOUT DAMAGE TO PLANTINGS.
 - A SOIL ANALYSIS WILL BE CONDUCTED PRIOR TO COMMENCEMENT OF REFORESTATION. ON LAND WHERE EXTENSIVE AGRICULTURAL USE HAS OCCURRED IN THE PAST, THERE WILL BE AN AREA OF UNDISTURBED SOIL TO DETERMINE IF A FRAGILAN LAYER IS PRESENT. IF FRAGILAN IS PRESENT, IT SHOULD BE PERFORATED BY AUGERING AND PLANTING HOLES SHOULD BE DRUG TO TWICE THE NORMAL DIAMETER FOR THE MATERIAL PLANTED.
 - SOILS SHOULD BE TREATED BY INCORPORATING NATURAL MULCH WITHIN THE TOP 12 INCHES, OR AROUND THE BASE OF THE PLANT. SOIL ANALYSIS, NATURAL AMENDMENTS, SUCH AS ORGANIC MULCH OR LEAF MOLD COMPOST ARE PREFERRED.
 - IF FILL MATERIAL IS USED AT THE PLANTING SITE, IT SHOULD BE CLEAN FILL WITH 12 INCHES OF NATIVE SOIL. STOCKPILING OF NATIVE TOP SOILS MUST BE DONE IN SUCH A WAY THAT THE HEIGHT OF THE PILE DOES NOT DAMAGE THE SEED BANK.
- PLANT MATERIAL STORAGE**
IT IS RECOMMENDED THAT PLANTING OCCUR WITHIN 24 HOURS OF DELIVERY TO THE SITE. PLANT MATERIALS WHICH ARE LEFT UNPLANTED FOR MORE THAN 24 HOURS SHOULD BE PROTECTED FROM DIRECT SUN AND WEATHER AND KEPT MOIST. NURSERY STOCK SHOULD NOT BE LEFT UNPLANTED FOR MORE THAN TWO (2) WEEKS.
- ON-SITE INSPECTION**
PRIOR TO PLANTING, PLANTING STOCK SHOULD BE INSPECTED. PLANTS NOT CONFORMING TO STANDARD NURSERYMAN SPECIFICATIONS FOR SIZE, FORM, VIGOR, ROOTS, TRUNK, WOUNDS, INSECTS, AND DISEASE SHOULD BE REPLACED.
- PLANTING SPECIFICATIONS**
 - CONTAINER GROWN STOCK: SUCCESSFUL PLANTING OF CONTAINER GROWN STOCK REQUIRES CAREFUL SITE PREPARATION AND INSPECTION OF THE PLANT MATERIAL ROOT SYSTEM. CAUTION THAT THE PLANTING SITE. THE PLANT SHOULD BE REMOVED FROM THE CONTAINER, AND THE ROOTS GENTLY LOOSENED FROM THE SOILS. IF THE ROOTS OR BRANCHES OF THE ROOT BALL, THE SUBSTITUTION IS STRONGLY RECOMMENDED. A SHARP OR KNIFE TO THE ROOT BALL, ALSO BE NOTED, AND SUBSTITUTED IF NECESSARY. ROOTS MAY NOT BE TRIMMED ON SITE PREPARED AS SPECIFIED. NATIVE STOCKED SOILS SHOULD BE USED TO BACKFILL PLANTING FIELD. RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.
 - BALLED AND BURLAPPED TREES: BALLED AND BURLAPPED TREES MUST BE HANDLED WITH CARE WHILE PLANTING. TREES SHOULD NOT BE PICKED UP BY THE TRUNK OR DROPPED, AS BOTH PRACTICES WILL TEND TO SEPARATE THE TRUNK FROM THE ROOT BALL. PRIOR TO PLANTING, ROOT BALLS SHOULD BE KEPT MOIST.
 - PLANTING FIELDS SHOULD BE CLEARED EQUAL TO 2.5 TIMES THE DIAMETER OF THE ROOT BALL. AVAILABLE SHOULD BE USED TO BACKFILL PLANTING STOCKED NATIVE TOP SOILS, IF RECOMMENDED IN THE PLANTING FIELD. AMENDMENTS ARE NOT ENCOURAGED TO STAY WITHIN THE AMENDED SOILS. SOILS SHOULD BE RAKED EVENLY OVER THE PLANTING FIELD AND COVERED WITH 2 TO 4 INCHES OF MULCH.
 - STAKING OF TREES IS NOT RECOMMENDED EXCEPT IN AREAS OF HIGH WINDS. MOVEMENT IS NECESSARY TO STRENGTHEN THE TRUNK OF THE PLANTED TREE. IF STAKES ARE USED, THEY SHOULD BE REMOVED AFTER THE FIRST GROWING SEASON. WINDING IS ALSO NOT ENCOURAGED DUE TO THE INCREASED OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE.
- POST-PLANTING CONSIDERATIONS**
 - SOIL STABILIZATION: FOR AREAS OF LARGE SCALE DISTURBANCE, SOILS MUST BE STABILIZED USING A NON-TISSUE BUILDING GROUND COVER OR ENGINEERING FABRIC.
 - PROTECTIVE DEVICES: TO PREVENT DAMAGE OF PLANTED AREAS, ALL REFORESTATION AND AFFORESTATION SITES MUST BE POSTED WITH APPROPRIATE SIGNS AND FENCED. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED IN THESE AREAS.
 - IN AREAS WHERE A SIGNIFICANT RISK OF DAMAGE BY DEER IS ANTICIPATED, A DEER MANAGEMENT PROGRAM MUST BE REVIEWED AND APPROVED BY M-NCPPC. ANY SUBSTANTIAL DAMAGE OR OBSTRUCTION RESULTING FROM A FAILURE TO COMPLY WITH THE APPROVED DEER MANAGEMENT PROGRAM MUST BE REPAIRED BEFORE REFORESTATION BONDS WILL BE RELEASED.
- SURVIVAL RATE OF REFORESTATION MATERIAL TO BE 75% AT THE END OF THE SECOND GROWING SEASON.**

WOODLAND CONSERVATION AREA MANAGEMENT NOTES

Prepared by the Environmental Planning Section,
Planning Department, M-NCPPC
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.

- 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.
- If a hazardous condition may be alleviated by corrective pruning, the Licensed Arborist or a 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 (i.e. Tree, Shrub, and Other Woody Plant Maintenance - Standard Practices).
- 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.
- 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.

Removal of Hazardous Trees, Hazardous Limbs, Noxious Plants, Invasive Plants or Non-Native Plants in Woodland Conservation Areas

- If the developer or builder no longer has an interest in the property the home owner shall obtain a written statement from the Licensed Arborist or Licensed Tree Expert identifying the hazardous condition and the proposed corrective measures prior to having the tree removed. The tree may then be removed by the arborist or tree expert. 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.
- The removal of noxious, invasive, and non-natives plant species from the woodland conservation areas may be done with the use of hand-held equipment only such as pruners or a chain saw. These plants may be cut near the ground and the 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.

Note: 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 Developers or Builders

- Reforestation and afforestation areas shall be planted prior to the occupancy of the nearest building or residence. 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 II 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 shall obtain a signed statement from the purchaser indicating that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that statement shall be presented to the Grading Inspector and the Environmental Planning Section.
- Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable.

Protection of Reforestation and Afforestation Areas by Individual Homeowners

- 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.
- Reforestation areas shall not be moved, however, the management of competing vegetation around individual trees is acceptable.

Woodland Areas NOT Counted as Part of the Woodland Conservation Requirements

- A revised Tree Conservation Plan is required prior to clearing any woodland area 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 1474 Governor Oden Bowie Drive, Upper Marlboro, Maryland 20772, phone 301-552-3600. Additional mitigation will be required for the approved plan. Although clearing may be allowed, it may be subject to additional replacement requirements, mitigation, and fees which must be reflected on the replanting plan approved by the M-NCPPC, Environmental Planning Section.
- Homeowners or property owners may remove trees less than two (2) inches 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 over-seeding 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.

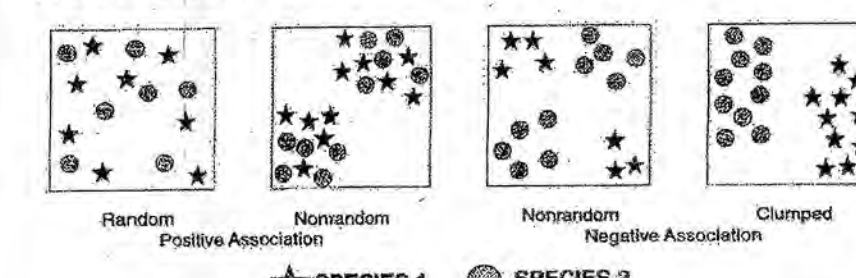
3 YEAR MANAGEMENT PLAN FOR REAFFORESTATION

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

- | Year | Task | Frequency |
|----------|---|---|
| Year 1 | Site Preparation and Tree Planting | Annual check once annually (September-November, see Note 1) |
| Year 2 | Reforestation planning if needed (see Note 2) | Annual check once annually (September-November) |
| Year 3 | Reforestation planning if needed (see Note 2) | Annual check once annually (September-November) |
| Year 4-5 | Reforestation planning if needed (see Note 2) | Annual check once annually (September-November) |

- Survival Check: Check planted stock against plant list (or as-built) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to cover after each inspection. Remove all dead plants.
- Reforestation Planning: 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 mortality, replace with an alternate plant type.
- Macellaneous: Fertilization or watering during years 1 through 3 will be done on an as needed basis. Specialized return operations or recommendations will be conducted on an as needed basis. Remove perimeter fencing and signage after year 5 based on the date planted.

Typical Forest Tree Distribution Patterns

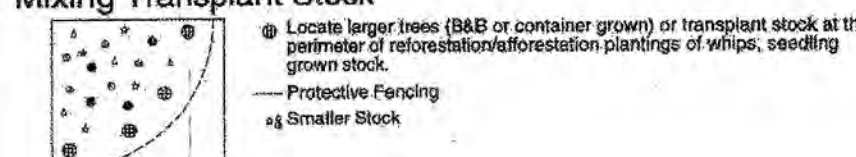


Note: Naturally occurring populations of trees tend to be found in individual groupings. A cluster of trees is usually a result of different species groups. The objective of an afforestation/reforestation plan is to select the appropriate species and distribution pattern for a chosen site that meets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

Aggregate Distribution Drift



Mixing Transplant Stock



Note: Local large trees (LDT) or container grown or transplant stock at the perimeter of reforestation/afforestation plantings of willows, seedling green stock, Protective Fencing, and Smaller Stock.

Source: Adapted from Forest Conservation Manual, 1991

Planting Distribution Patterns



Notes:

- POSTS SHALL STAND PLUMB.
- RAILS SHALL BE HUNG WITH UNIFORM HEIGHT AND SPACING.
- REFORESTATION SIGNS TO BE ATTACHED TO WOOD POSTS EVERY 50 FEET.
- TOP OF SIGN TO BE FLUSH WITH TOP OF WOOD POST.
- SIGNS TO BE ATTACHED USING 2 GALVANIZED WOOD SCREWS EACH WITH A GALVANIZED WASHER.

PERMANENT (SPLIT RAIL) TREE PROTECTION FENCE FOR REFORESTATION AREAS

REFORESTATION/AFFORESTATION AND PERMANENT TREE SAVE FENCING

TREE SAVE / SILT FENCE

NOT TO SCALE
NOTES: FENCING TO BE INSTALLED PRIOR TO CONSTRUCTION AND REMOVED BEFORE THE INSTALLATION OF THE SPLIT RAIL FENCE

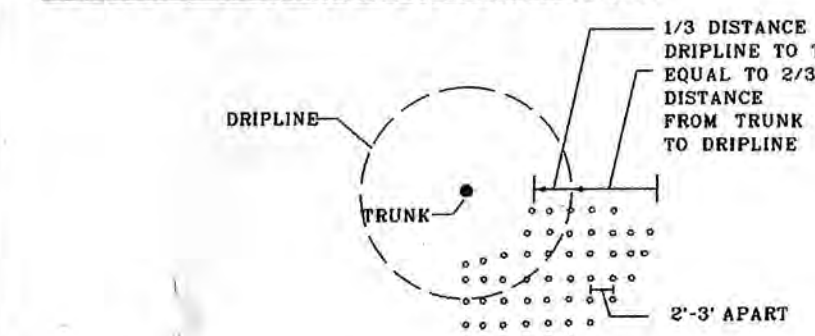
TASKS	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
TRANSPLANT OF 2" OR GREATER												
PLANTING SEEDLINGS, WEEDS												
MINIMUM MONITORING	*											
FERTILIZER, IF NEEDED												
WATERING												
PRUNING												

RECOMMENDED, OPTIMAL TIME
RECOMMENDED WITH ADDITIONAL CARE
RECOMMENDED
DEPENDENT UPON SITE CONDITIONS
DEPENDENT UPON SITE CONDITIONS WEEKLY WATERING IS STRONGLY RECOMMENDED FROM MAY THROUGH OCTOBER UNLESS WEEKLY RAINFALL EQUALS 1"

- ACTIVITIES DURING NOVEMBER THROUGH FEBRUARY DEPEND ON GROUND CONDITIONS
- NO FALL PLANTING OF OAKS AND PINES
- THE PLANTING AND CARE OF TREES IS MOST SUCCESSFUL WHEN COORDINATED WITH THE LOCAL CONDITIONS
- THIS CALENDAR SUMMARIZES SOME OF THE RECOMMENDED TIME FRAMES FOR BASIC REFORESTATION AND STRESS REDUCTION ACTIVITIES.

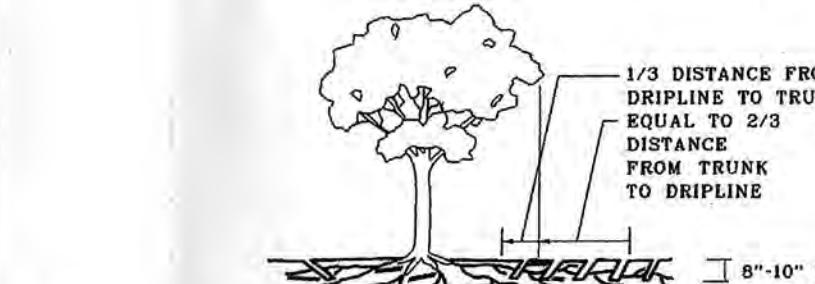
TREE PLANTING AND MAINTENANCE CALENDAR

VERTICAL MULCHING OR FERTILIZING



- AUGER HOLES TO BE 8" - 10" DEEP, 2'-3' APART, 1'-3" WIDE.
- LEAVE SOIL ON GROUND.
- APPLY FERTILIZER 1/2 DISTANCE IN FROM DRIFLINE TO TRUNK.
- FERTILIZE WITH 50/50 COMPOST AND FINE FINES.

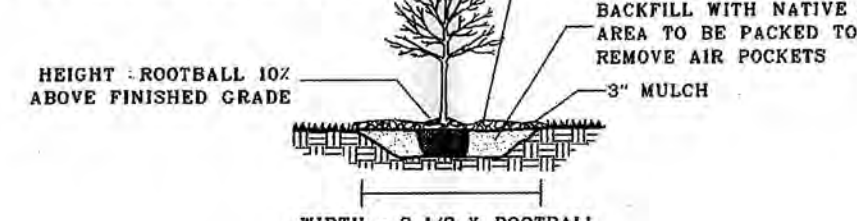
APPLICATION OF FERTILIZER BY INJECTION



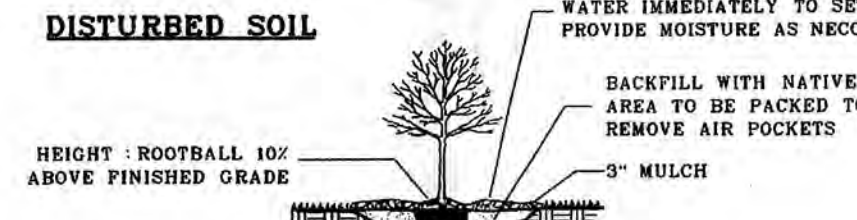
- INJECTION HOLES TO BE 8" - 10" DEEP, 2'-3' APART.
- AUGER HOLES, DO NOT POKE, LEAVE SOIL ON GROUND.
- APPLY FERTILIZER 1/2 DISTANCE IN FROM DRIFLINE.
- TO TRUNK AND EXTEND 5/2 OUT FROM DRIFLINE.

APPLICATION OF FERTILIZERS

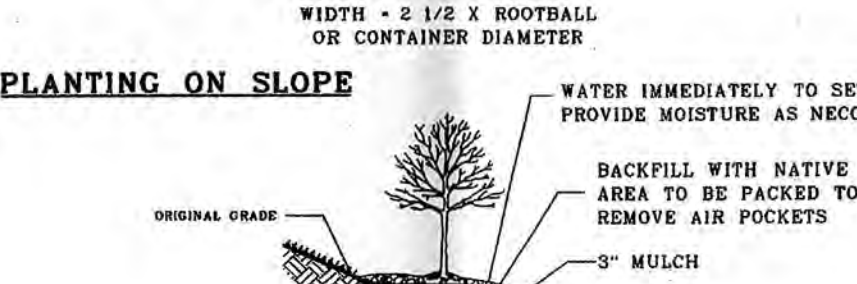
UNDISTURBED SOIL



DISTURBED SOIL



PLANTING ON SLOPE



CONTAINER GROWN AND B&B PLANTING TECHNIQUES

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

DATE

MARCH 2009

DESIGNED NEG

TECHNICIAN NEG

CHECKED KVC

PLAN LOCATION 1007/ENG/ENV/TCP2/TCP2-SH.SHT

PEN TABLE X

SCALE

NTS

JOB NO. 1007

TREE CONSERVATION PLAN TYPE II NOTES AND DETAILS

TREE CONSERVATION PLAN TYPE II

TRIANGLE/COLLINGBROOK

QUEEN ANN (7TH) ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND

TOTAL SHEETS IN SET 12

Protection of Reforestation and Afforestation Areas by Developers or Builders

1. Reforestation and afforestation areas shall be planted prior to the occupancy of the nearest building or residence. 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 II 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 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 Environmental Planning Section.

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

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 5				
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES	USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	QTY		
SCIENTIFIC NAME	COMMON NAME			
NYSSA SYLVATICA	BLACKGUM	72		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	72		
ACER RUBRUM	RED MAPLE	72		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	72		
FAGUS GRANDIFOLIA	AMERICAN BEECH	71		
QUERCUS PALustris	AMERICAN PERSIMMON	71		
PRUNUS SEROTINA	BLACK CHERRY	71		
QUERCUS ALBA	SOUTHERN RED OAK	71		
QUERCUS FALCATA	BLACK OAK	71		
QUERCUS VELUTINA	BLACK OAK	71		
TOTAL TREES:		469		
TOTAL SEEDLING EQUIVALENT:		2405		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ULMUS X HOMESTEAD	HOMESTEAD ELM	64		
CORNUS FLORIDA	IRONWOOD	64		
AMERANCHER CANADENSIS	ALLEGHENY SERVICEBERRY	64		
TOTAL TREES:		192		
TOTAL SEEDLING EQUIVALENT:		576		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	38		
ILEX OPACA (MALE)	AMERICAN HOLLY	38		
PINUS VIRGINIANA	SCRUB PINE	70		
TOTAL TREES:		144		
TOTAL SEEDLING EQUIVALENT:		720		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM	38		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	38		
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	38		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	38		
TOTAL SHRUBS:		152		
TOTAL SEEDLING EQUIVALENT:		760		

COLLINGSBROOK

SPECIMEN TREE LIST SEE SHEETS 2 - 10 FOR TREE LOCATIONS					
DESIGNATION	SCIENTIFIC NAME	COMMON NAME	DBH	CONDITION	DISPOSITION
T-1	QUERCUS PALustris	PIN OAK	38"	VERY GOOD	TO REMAIN
T-2	QUERCUS PALustris	PIN OAK	38"	VERY GOOD	TO REMAIN
T-3	QUERCUS PALustris	PIN OAK	32"	VERY GOOD	TO REMAIN
T-4	ACER SACCHARINUM	SILVER MAPLE	30"	FAIR	TO BE REMOVED
T-5	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	30"	GOOD	TO REMAIN
T-6	LIRIODENDRON TULIPIFERA	TULIP POPLAR	36"	FAIR	TO REMAIN
T-7	QUERCUS PHellos	WILLOW OAK	40"	GOOD	TO REMAIN
T-8	ACER SACCHARINUM	SILVER MAPLE	48"	FAIR	TO BE REMOVED
T-9	ACER RUBRUM	RED MAPLE	31"	GOOD	TO BE REMOVED
T-10	LIRIODENDRON TULIPIFERA	TULIP POPLAR	32"	GOOD	TO BE REMOVED
T-11	QUERCUS PALustris	PIN OAK	32"	GOOD	TO BE REMOVED
T-12	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	31"	GOOD	TO REMAIN
T-13	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	33"	FAIR	TO REMAIN
T-14	ULMUS AMERICAN	AMERICAN ELM	27"	GOOD	TO REMAIN
T-15	QUERCUS PALustris	PIN OAK	30"	GOOD	TO REMAIN
T-16	QUERCUS PALustris	PIN OAK	33"	GOOD	TO REMAIN, ROOT PRUNE
T-17	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	33"	GOOD	TO REMAIN, ROOT PRUNE
T-18	QUERCUS PALustris	PIN OAK	35"	FAIR	TO BE REMOVED
T-19	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	35"	GOOD	TO BE REMOVED
T-20	LIRIODENDRON TULIPIFERA	TULIP POPLAR	35"	VERY GOOD	TO REMAIN
T-21	QUERCUS FALCATA	RED OAK	38"	GOOD	TO BE REMOVED
T-22	ACER RUBRUM	RED MAPLE	32"	POOR	TO BE REMOVED
T-23	FAGUS GRANDIFOLIA	BEECH	30"	GOOD	TO REMAIN, ROOT PRUNE
T-24	FAGUS GRANDIFOLIA	BEECH	30"	GOOD	TO REMAIN, ROOT PRUNE
T-25	QUERCUS RUBRA	RED OAK	36"	VERY GOOD	TO REMAIN
T-26	QUERCUS RUBRA	RED OAK	38"	GOOD	TO REMAIN
T-27	QUERCUS RUBRA	RED OAK	32"	GOOD	TO REMAIN
T-28	QUERCUS RUBRA	RED OAK	32"	GOOD	TO REMAIN
T-29	QUERCUS PALustris	PIN OAK	35"	VERY GOOD	TO BE REMOVED
T-30	LIRIODENDRON TULIPIFERA	TULIP POPLAR	31"	POOR	TO BE REMOVED
T-31	LIRIODENDRON TULIPIFERA	TULIP POPLAR	34"	GOOD	TO BE REMOVED
T-32	LIRIODENDRON TULIPIFERA	TULIP POPLAR	33"	FAIR	TO BE REMOVED
T-33	LIRIODENDRON TULIPIFERA	TULIP POPLAR	32"	GOOD	TO BE REMOVED
T-34	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	35"	GOOD	TO BE REMOVED
T-35	QUERCUS FALCATA	RED OAK	30"	GOOD	TO BE REMOVED
T-36	ACER RUBRUM	RED MAPLE	31"	GOOD	TO REMAIN
T-37	PRUNUS SEROTINA	BLACK CHERRY	30"	POOR	TO BE REMOVED
T-38	LIRIODENDRON TULIPIFERA	TULIP POPLAR	40"	POOR	TO BE REMOVED

OUTLOT A

SPECIMEN TREE LIST

ID	Common Name	Species Name	DBH (inches)	Condition	PROTECTION MEASURES
1*	American Sycamore	Platanus occidentalis	30	Poor	Save
2*	American Sycamore	Platanus occidentalis	32	Good	Save
3*	Pin Oak	Quercus palustris	35	Good	Save
4*	Southern Red Oak	Quercus falcata	30	Fair	Save

NOTES:

THE SPECIMEN TREES WERE FIELD LOCATED

* DENOTES TREES LOCATED ON TRIANGLE PROPERTY

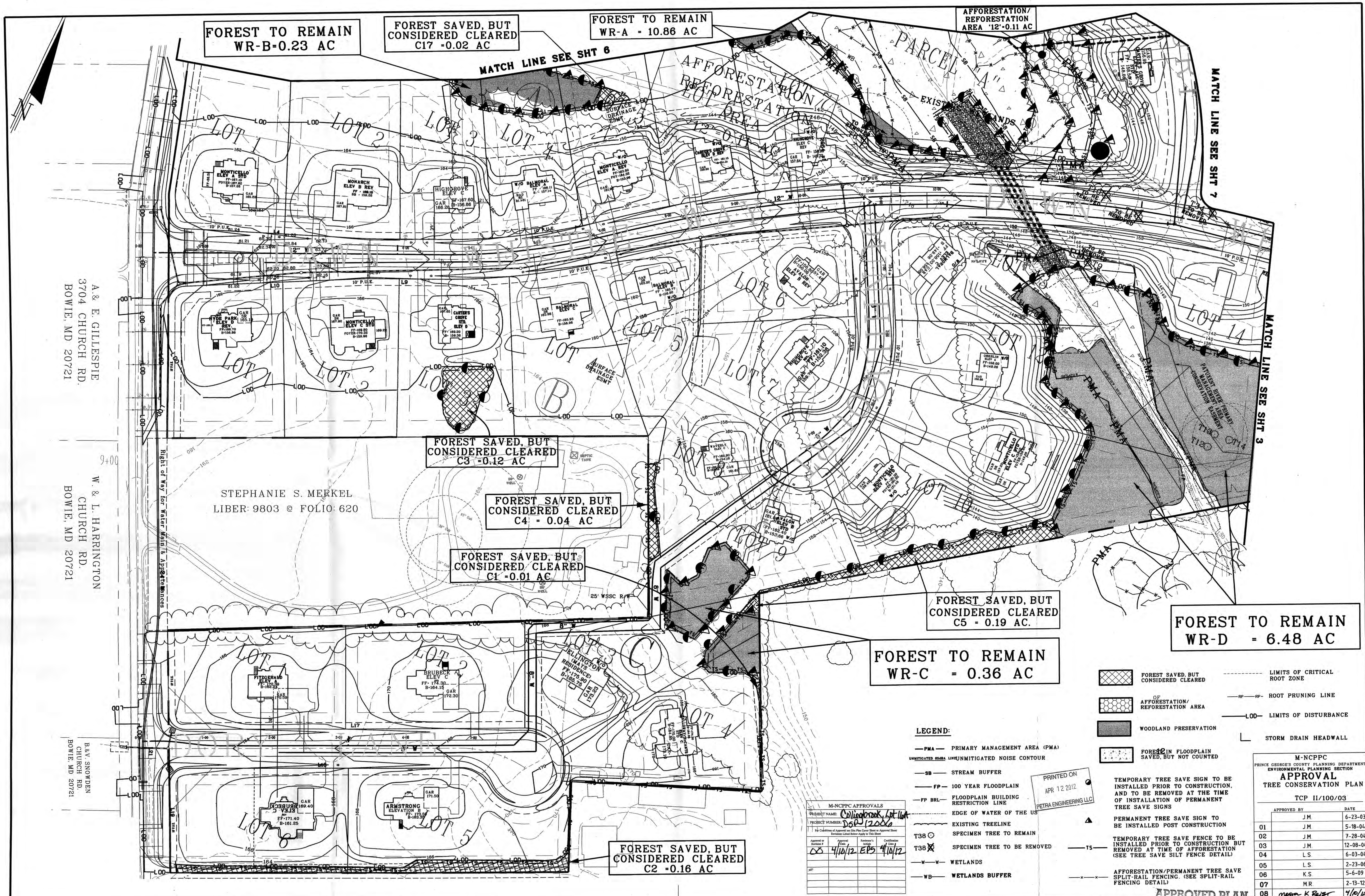
AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 1				
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES	USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	QTY		
SCIENTIFIC NAME	COMMON NAME			
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	145		
ACER RUBRUM	RED MAPLE	145		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	145		
FAGUS GRANDIFOLIA	AMERICAN BEECH	145		
QUERCUS PALustris	PIN OAK	145		
PRUNUS SEROTINA	BLACK CHERRY	145		
QUERCUS ALBA	WHITE OAK	145		
NYSSA SYLVATICA	BLACKGUM	145		
TOTAL TREES:		900		
TOTAL SEEDLING EQUIVALENT:		2500		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	68		
UNDERA BEZON	SPICEBUSH	68		
CERCIS CANADENSIS	REDBUD	12		
TOTAL TREES:		200		
TOTAL SEEDLING EQUIVALENT:		600		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	50		
ILEX OPACA (MALE)	AMERICAN HOLLY	26		
PINUS STROBUS	WHITE PINE	75		
PINUS TREDA	LOBLOLLY PINE	75		
TOTAL TREES:		225		
TOTAL SEEDLING EQUIVALENT:		900		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX VERTICILLATA - WINTER RED	WINTER RED WINTERBERRY	25		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	25		
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	25		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	25		
TOTAL SHRUBS:		100		
TOTAL SEEDLING EQUIVALENT:		100		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 6				
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES	USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	QTY		
SCIENTIFIC NAME	COMMON NAME			
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	7		
ACER RUBRUM	RED MAPLE	7		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	7		
FAGUS GRANDIFOLIA	AMERICAN BEECH	7		
QUERCUS PALustris	AMERICAN PERSIMMON	7		
PRUNUS SEROTINA	BLACK CHERRY	7		
QUERCUS ALBA	SOUTHERN RED OAK	7		
LIQUIDAMBAR STYRACIFLUA	SWEET GUM	6		
TOTAL TREES:		40		
TOTAL SEEDLING EQUIVALENT:		200		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	38		
CORNUS FLORIDA	FLOWERING DOGWOOD	38		
MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	38		
TOTAL TREES:		106		
TOTAL SEEDLING EQUIVALENT:		315		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	38		
ILEX OPACA (MALE)	AMERICAN HOLLY	38		
PINUS VIRGINIANA	SCRUB PINE	81		
PINUS STROBUS	WHITE PINE	81		
JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	81		
TOTAL TREES:		323		
TOTAL SEEDLING EQUIVALENT:		1292		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	17		
KALMIA LATIFOLIA	MOUNTAIN LAUREL	16		
VIBURNUM TRELICUM	AMERICAN CRANBERRY VIBURNUM	16		
TOTAL SHRUBS:		33		
TOTAL SEEDLING EQUIVALENT:		33		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 12				
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES	USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	QTY		
SCIENTIFIC NAME	COMMON NAME			
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	3		
ACER RUBRUM	RED MAPLE	3		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	3		
QUERCUS PALustris	PIN OAK	3		
NYSSA SYLVATICA	BLACKGUM	2		
TOTAL TREES:		13		
TOTAL SEEDLING EQUIVALENT:		65		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	1		
UNDERA BEZON	SPICEBUSH	2		
CERCIS CANADENSIS	REDBUD	2		
TOTAL TREES:		5		
TOTAL SEEDLING EQUIVALENT:		15		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	2		
ILEX OPACA (MALE)	AMERICAN HOLLY	1		
PINUS VIRGINIANA	SCRUB PINE	2		
PINUS STROBUS	WHITE PINE	2		
TOTAL TREES:		7		
TOTAL SEEDLING EQUIVALENT:		28		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	7		
KALMIA LATIFOLIA	MOUNTAIN LAUREL	12		
VIBURNUM TRELICUM	AMERICAN CRANBERRY VIBURNUM	12		
TOTAL SHRUBS:		31		
TOTAL SEEDLING EQUIVALENT:		31		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 2				
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES	USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	QTY		
SCIENTIFIC NAME	COMMON NAME			
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	14		
ACER RUBRUM	RED MAPLE	14		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	14		
FAGUS GRANDIFOLIA	AMERICAN BEECH	14		
QUERCUS PALustris	AMERICAN PERSIMMON	14		
PRUNUS SEROTINA	BLACK CHERRY	14		
QUERCUS ALBA	SOUTHERN RED OAK	14		
SYMBOLADUS BICOLOR	KENTUCKY COFFEE TREE	14		
CARYA TOBENTOSA	MOCKERNUT HICKORY	14		
CELTIS OCCIDENTALIS	HICKBERRY	14		
TOTAL TREES:		140		
TOTAL SEEDLING EQUIVALENT:		700		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	4		
UNDERA BEZON	SPICEBUSH	3		
CERCIS CANADENSIS	REDBUD	3		
TOTAL TREES:		10		
TOTAL SEEDLING EQUIVALENT:		30		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	7		
ILEX OPACA (MALE)	AMERICAN HOLLY	7		
PINUS VIRGINIANA	SCRUB PINE	8		
PINUS STROBUS	WHITE PINE	8		
TOTAL TREES:		26		
TOTAL SEEDLING EQUIVALENT:		104		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM	3		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3		
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	6		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	3		
TOTAL SHRUBS:		19		
TOTAL SEEDLING EQUIVALENT:		19		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 7			
1.5 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED			
DECIDUOUS SHADE TREES		USE 2" CALIPER STOCK (NOTE: 2" CAL. TREE IS EQUIVALENT TO 5 SEEDLINGS)	
SCIENTIFIC NAME	COMMON NAME		QTY
LIQUIDAMBAR STYRACIFLUA	SWEETGUM		10
ACER RUBRUM	RED MAPLE		10
LIRIODENDRON TULIPIFERA	TULIP POPLAR		10
FAGUS GRANDIFOLIA	AMERICAN BEECH		10
QUERCUS ALBA	WHITE OAK		10
NYSSA SYLVATICA	BLACKGUM		11
TOTAL TREES:			81
TOTAL SEEDLING EQUIVALENT:			295
DECIDUOUS UNDERSTORY TREES		USE 1.5" CALIPER STOCK (NOTE: 1.5" CAL. TREE IS EQUIVALENT TO 3 SEEDLINGS)	
SCIENTIFIC NAME	COMMON NAME		QTY
AMELANCHIER LAEVIS	SPICEBUSH		14
UNDERA BEZON	REDBUD		14
CERCIS CANADENSIS	REDBUD		14
TOTAL TREES:			28
TOTAL SEEDLING EQUIVALENT:			84
EVERGREEN TREES		USE 6" HIGH STOCK (NOTE: 6" H. TREE IS EQUIVALENT TO 4 SEEDLINGS)	
SCIENTIFIC NAME	COMMON NAME		QTY
ILEX OPACA (FEMALE)	AMERICAN HOLLY		6
ILEX OPACA (MALE)	AMERICAN HOLLY		5
TOTAL TREES:			10
TOTAL SEEDLING EQUIVALENT:			40
SHRUBS		OKIAWIA OR BIRCH STOCK 3-4" HEIGHT (NOTE: 1 SHRB IS EQUIVALENT TO 1 SEEDLING)	
SCIENTIFIC NAME	COMMON NAME		QTY
VIBURNUM ACERIFOLIUM	MAPLELEAF VIBURNUM		3
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD		3
VACUINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY		3
HYDRANGEA QUERCIFOLIA	OAKLE		3
TOTAL SHRUBS:			11
TOTAL SEEDLING EQUIVALENT:			11



A & E GILLESPIE
3704 CHURCH RD.
BOWIE, MD 20721

W. & L. HARRINGTON
CHURCH RD.
BOWIE, MD 20721

B. & V. SNOWDEN
CHURCH RD.
BOWIE, MD 20721

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

NO.	REVISION	BY	DATE	DESIGNED	TECHNICIAN	CHECKED	DATE
1	ADDED PHASING TO PHASE 3	KVC	12/6/2011	NEG	NEG	NEG	
				NEG	KVC		

DATE	MARCH 2009
SCALE	1"=50'
JOB NO.	1007

TREE CONSERVATION PLAN TYPE II

1007/ENG/ENV/TC/2/CP2-S2-SHT

LEVEL SYMBOLS

TREE CONSERVATION PLAN TYPE II

TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD

FOREST TO REMAIN
WR-C = 0.36 AC

FOREST TO REMAIN
WR-D = 6.48 AC

LEGEND:

- PMA - PRIMARY MANAGEMENT AREA (PMA)
- UNMITIGATED 65DBA UNMITIGATED NOISE CONTOUR
- SB - STREAM BUFFER
- FP - 100 YEAR FLOODPLAIN
- FP BRL - FLOODPLAIN BUILDING RESTRICTION LINE
- EDGE OF WATER OF THE US
- EXISTING TREELINE
- T38 - SPECIMEN TREE TO REMAIN
- T38 - SPECIMEN TREE TO BE REMOVED
- W - WETLANDS
- WB - WETLANDS BUFFER

- FOREST SAVED, BUT CONSIDERED CLEARED
- AF - AFFORESTATION/ REFORESTATION AREA
- WOODLAND PRESERVATION
- FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
- LIMITS OF CRITICAL ROOT ZONE
- RP - RP - ROOT PRUNING LINE
- LOD - LIMITS OF DISTURBANCE
- STORM DRAIN HEADWALL

M-NCPPC APPROVALS

PROJECT NAME: Collingbrook, Lot 14A

PROJECT NUMBER: DSP-12006

APPROVED BY: [Signature]

DATE: 4/10/12

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC

TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGNS

PERMANENT TREE SAVE SIGN TO BE INSTALLED POST CONSTRUCTION

TEMPORARY TREE SAVE FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SILT FENCE DETAIL)

AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)

M-NCPPC
PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT
ENVIRONMENTAL PLANNING SECTION

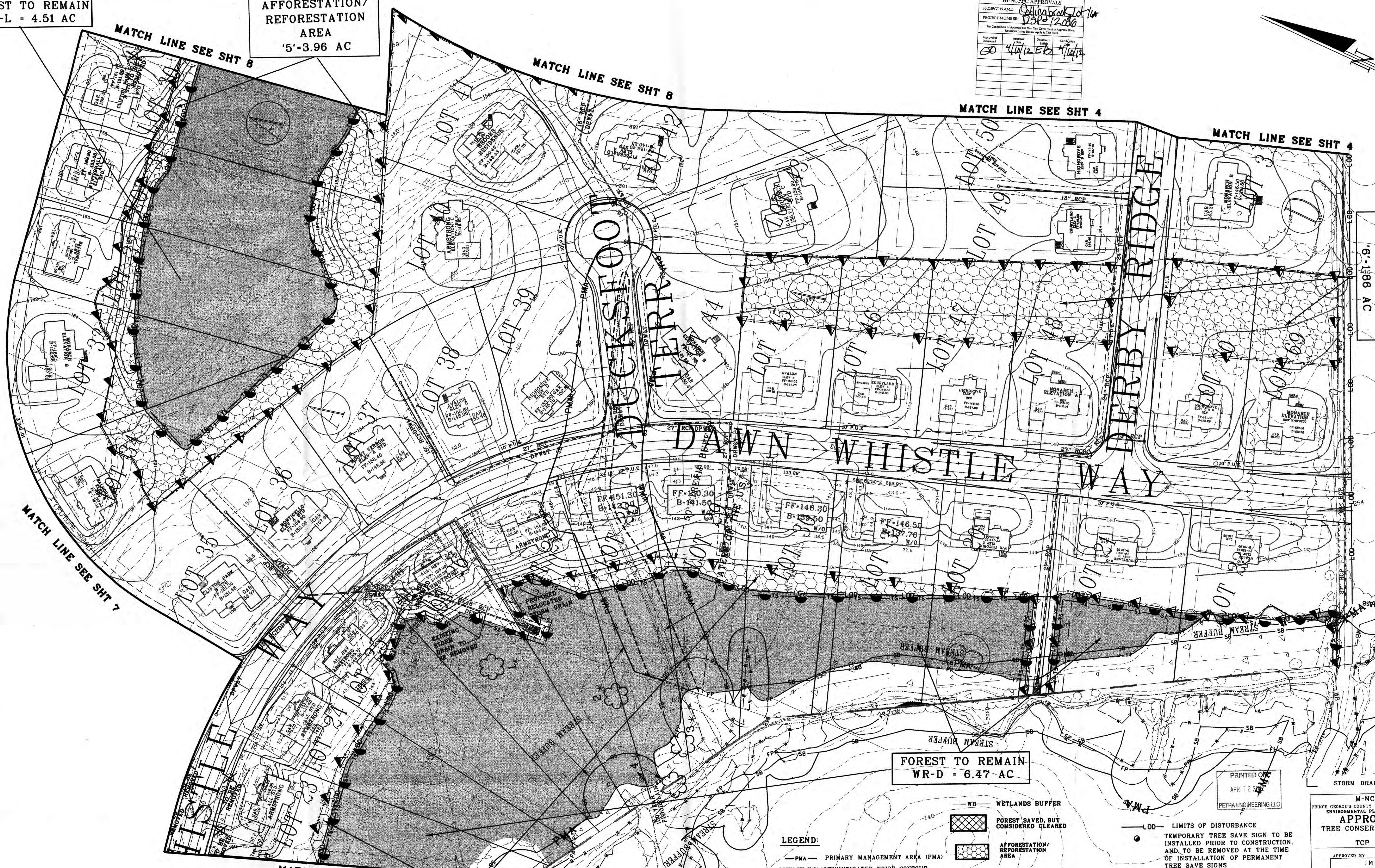
APPROVAL
TREE CONSERVATION PLAN
TCP II/100/03

APPROVED BY	DATE
J.M.	6-23-03
J.M.	5-18-04
J.M.	7-28-04
J.M.	12-08-04
L.S.	6-03-04
L.S.	2-23-06
K.S.	5-6-09
M.R.	2-13-12
Mega K. Riser	4/10/12

FOREST TO REMAIN
WR-L = 4.51 AC

AFFORESTATION/
REFORESTATION
AREA
'5' = 3.96 AC

M-NCPPC APPROVALS			
PROJECT NAME: Collingbrook Lot 14			
PROJECT NUMBER: DSP-12006			
For Conditions of Approval See the Plan and Notes or Approval Sheet			
Approval of	Approval of	Approval of	Approval of
Project	Design	Construction	Operation
✓	✓	✓	✓
4/12/12	4/12/12	4/12/12	4/12/12



FOREST TO REMAIN
WR-D = 6.47 AC

AFFORESTATION/
REFORESTATION
AREA
'13' = 0.40 AC

LEGEND:

- PMA - PRIMARY MANAGEMENT AREA (PMA)
- UNMITIGATED NOISE LIMIT/UNMITIGATED NOISE CONTOUR
- SB - STREAM BUFFER
- FP - 100 YEAR FLOODPLAIN
- FP BRL - FLOODPLAIN BUILDING RESTRICTION LINE
- W - WETLANDS
- RP - ROOT PRUNING LINE
- WB - WETLANDS BUFFER
- FOREST SAVED, BUT CONSIDERED CLEARED
- AFFORESTATION/REFORESTATION AREA
- WOODLAND PRESERVATION
- FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
- LIMITS OF CRITICAL ROOT ZONE
- LOD - LIMITS OF DISTURBANCE
- TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGNS
- PERMANENT TREE SAVE SIGN TO BE INSTALLED POST CONSTRUCTION
- TEMPORARY TREE SAVE FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SILT FENCE DETAIL)
- AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)
- T38 - SPECIMEN TREE TO REMAIN
- T38X - SPECIMEN TREE TO BE REMOVED

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC

M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION APPROVAL TREE CONSERVATION PLAN		
TCP II/100/03		
APPROVED BY	DATE	
J.M.	6-23-03	
J.M.	5-18-04	
J.M.	7-28-04	
J.M.	12-08-04	
L.S.	6-03-04	
L.S.	2-23-06	
K.S.	5-6-09	
MEGAN REISER	2-13-12	
MEGAN REISER	4/10/12	

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

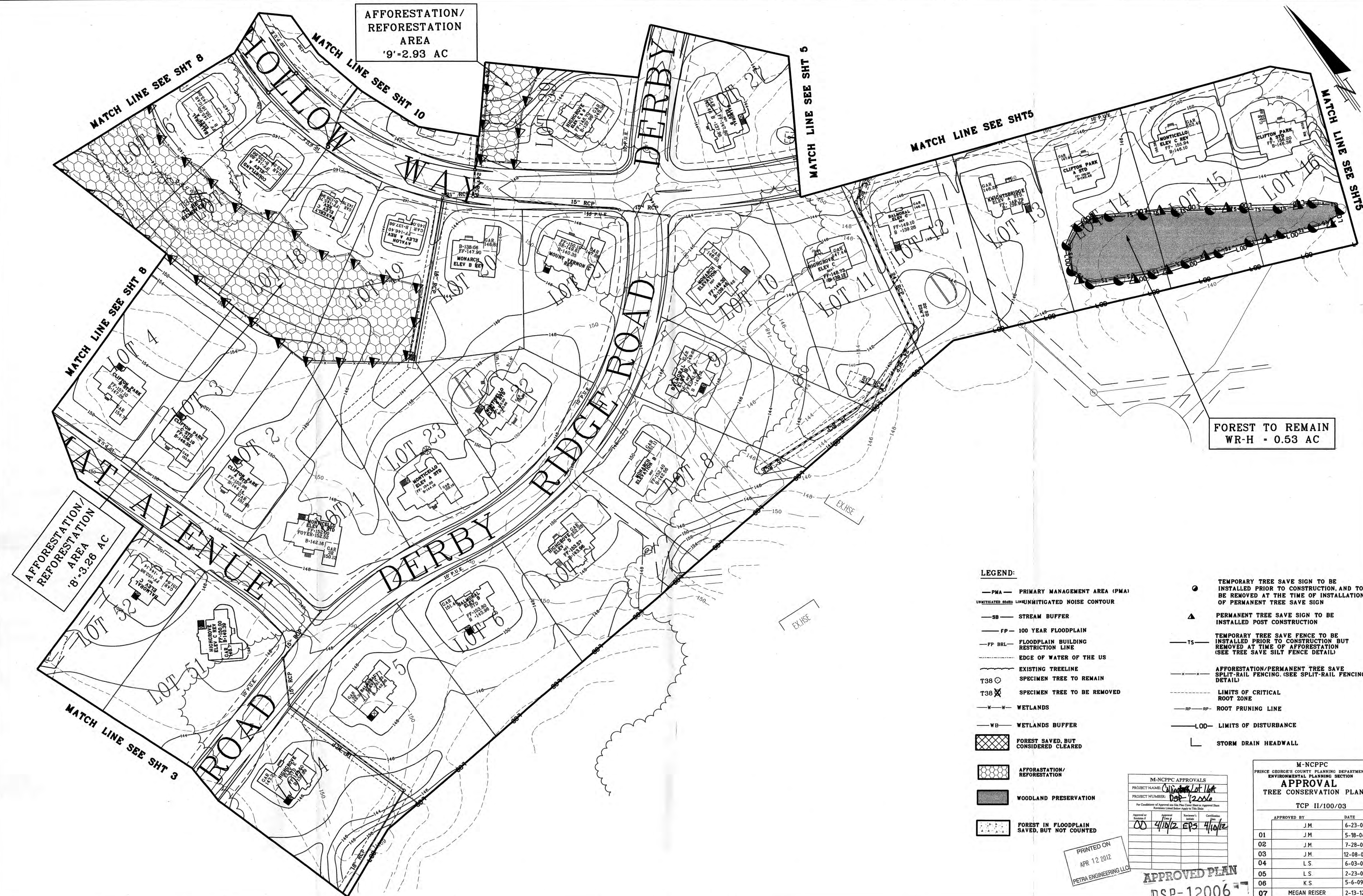
DATE	MARCH 2009
DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC
PLAN LOCATION	1007/ENG/ENV/TCF2/TCF2-S3.SHT
PEN TABLE	X LEVEL SYMBOLOLOGY

SCALE
1" = 50'
JOB NO.
1007

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
APPROVED PLAN DSP-12006
TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD



AFFORESTATION/
REFORESTATION
AREA
'8'-3.26 AC

AFFORESTATION/
REFORESTATION
AREA
'9'-2.93 AC

FOREST TO REMAIN
WR-H - 0.53 AC

- LEGEND:**
- PMA — PRIMARY MANAGEMENT AREA (PMA)
 - UNMITIGATED NOISE — UNMITIGATED NOISE CONTOUR
 - SB — STREAM BUFFER
 - FP — 100 YEAR FLOODPLAIN
 - FP BRL — FLOODPLAIN BUILDING RESTRICTION LINE
 - — — — — EDGE OF WATER OF THE US
 - T38 — EXISTING TREELINE
 - T38 — SPECIMEN TREE TO REMAIN
 - T38 — SPECIMEN TREE TO BE REMOVED
 - W — W — WETLANDS
 - WB — WETLANDS BUFFER
 - — — — — FOREST SAVED, BUT CONSIDERED CLEARED
 - — — — — AFFORESTATION/REFORESTATION
 - — — — — WOODLAND PRESERVATION
 - — — — — FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
 - — TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGN
 - ▲ — PERMANENT TREE SAVE SIGN TO BE INSTALLED POST CONSTRUCTION
 - TS — TEMPORARY TREE SAVE FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SILT FENCE DETAIL)
 - X — X — AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)
 - — — — — LIMITS OF CRITICAL ROOT ZONE
 - RP — RP — ROOT PRUNING LINE
 - LOD — LIMITS OF DISTURBANCE
 - — — — — STORM DRAIN HEADWALL

M-NCPPC APPROVALS

PROJECT NAME:	Clifford Lot 14
PROJECT NUMBER:	DSP-12006
For Conditions of Approval on the Plan Cover Sheet or Approval Sheet	
Approved by:	4/10/12 EPS 4/10/12

M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION

APPROVAL TREE CONSERVATION PLAN

TCP II/100/03

APPROVED BY	DATE
JM	6-23-03
JM	5-18-04
JM	7-28-04
JM	12-08-04
LS	6-03-04
LS	2-23-06
KS	5-6-09
MEGAN REISER	2-13-12
Megan K. Reiser	4/10/12

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC

APPROVED PLAN
DSP-12006

Petra Engineering LLC
5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

NO.	REVISION	BY	DATE
1			

DATE	MARCH 2009
DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC
PLAN LOCATION	1007/ENG/ENV/TCP2/CP2.S4.SHT
PEN TABLE	X LEVEL SYMBOLS

SCALE
1"=50'

JOB NO.
1007

STATE OF MARYLAND
PRINCE GEORGE'S COUNTY
PLANNING DEPARTMENT
ENVIRONMENTAL PLANNING SECTION

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK
14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD



LOT 30, BLOCK D HAS LESS THAN 40' REAR YARD. THE LIMITS OF DISTURBANCE IS BOUNDED BY A PMA DUE TO STEEP SLOPES.

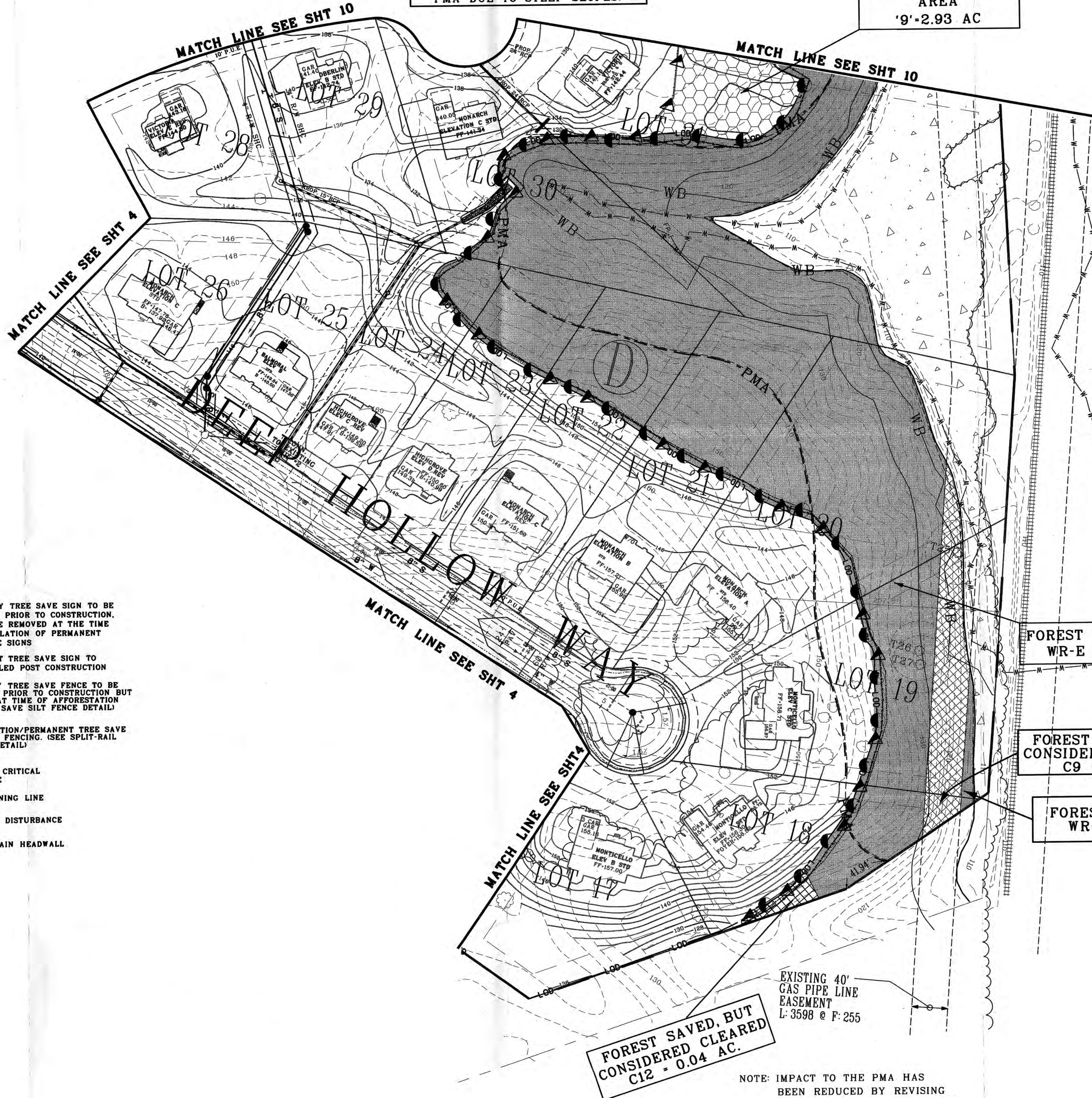
AFFORESTATION/
REFORESTATION
AREA
'9'-2.93 AC

COLLINGTON BRANCH

LEGEND:

- PMA— PRIMARY MANAGEMENT AREA (PMA)
—UNMITIGATED NOISE CONTOUR
—SB— STREAM BUFFER
—FP— 100 YEAR FLOODPLAIN
—FP BRL— FLOODPLAIN BUILDING RESTRICTION LINE
—EOW— EDGE OF WATER OF THE US
—EXISTING TREELINE
T38 ○ SPECIMEN TREE TO REMAIN
T38 ✕ SPECIMEN TREE TO BE REMOVED
—W—W— WETLANDS
—WB— WETLANDS BUFFER
[Hatched Box] FOREST SAVED, BUT CONSIDERED CLEARED
[Dotted Box] AFFORESTATION/
REFORESTATION
AREA
[Solid Grey Box] WOODLAND PRESERVATION
[Stippled Box] FOREST IN FLOODPLAIN
SAVED, BUT NOT COUNTED

- TEMPORARY TREE SAVE SIGN TO BE
INSTALLED PRIOR TO CONSTRUCTION,
AND TO BE REMOVED AT THE TIME
OF INSTALLATION OF PERMANENT
TREE SAVE SIGNS
▲ PERMANENT TREE SAVE SIGN TO
BE INSTALLED POST CONSTRUCTION
—TS— TEMPORARY TREE SAVE FENCE TO BE
INSTALLED PRIOR TO CONSTRUCTION BUT
REMOVED AT TIME OF AFFORESTATION
(SEE TREE SAVE SILT FENCE DETAIL)
—X—X— AFFORESTATION/PERMANENT TREE SAVE
SPLIT-RAIL FENCING (SEE SPLIT-RAIL
FENCING DETAIL)
—LIMITS OF CRITICAL
ROOT ZONE
—RP—RP— ROOT PRUNING LINE
—LOD— LIMITS OF DISTURBANCE
—L— STORM DRAIN HEADWALL



FOREST TO REMAIN
WR-E = 11.55 AC

FOREST SAVED, BUT
CONSIDERED CLEARED
C9 = 0.29 AC

FOREST TO REMAIN
WR-K = 0.03 AC

FOREST SAVED, BUT
CONSIDERED CLEARED
C12 = 0.04 AC.

EXISTING 40'
GAS PIPE LINE
EASEMENT
L: 3598 @ F: 255

NOTE: IMPACT TO THE PMA HAS
BEEN REDUCED BY REVISING
THE GRADING FOR THE HOUSES
ON LOTS 20-24, BLOCK D.

M-NCPPC APPROVALS			
PROJECT NAME:	Collington, Lot 16A		
PROJECT NUMBER:	DSP-12006		
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revisions Listed Below Apply to This Sheet			
Approval or Exception #	Approval Date	Reviewer's Initials	Consent Date
DD	4/10/12	EPB	4/10/12

M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION APPROVAL TREE CONSERVATION PLAN TCP II/100/03			
APPROVED BY	DATE	APPROVED BY	DATE
01 J.M.	6-23-03	01 J.M.	5-18-04
02 J.M.	7-28-04	02 J.M.	12-08-04
03 J.M.	12-08-04	03 J.M.	6-03-04
04 L.S.	2-23-06	04 L.S.	2-23-06
05 L.S.	5-6-09	05 L.S.	2-13-12
06 K.S.	2-13-12	06 K.S.	4/10/12
07 MEGAN REISER	4/10/12	07 MEGAN REISER	4/10/12
08 MEGAN REISER	4/10/12	08 MEGAN REISER	4/10/12

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC
APPROVED PLAN
DSP-12006

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

MARCH 2009

DESIGNED NEG
TECHNICIAN NEG
CHECKED KVC

PLAN LOCATION 1007/ENG/ENV/TCP2/TCPS_SS.SHT
X LEVEL SYMBOLOGY

SCALE

1"=50'

JOB NO.

1007



TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD

5 OF
12

MD ROUTE 50 (VARIABLE R/W) (MARYLAND SRC PLAT *49737 & 49740)

CHURCH ROAD

FOREST SAVED, BUT
CONSIDERED CLEARED
C15 = 0.04 AC

FOREST TO REMAIN
WR-A = 8.98 AC

AFFORESTATION/
REFORESTATION
AREA 11 = 1.15 AC

PARCEL "A"
LIBER 19431 FOLIO 728
AREA = 21.1 AC

FOREST TO REMAIN
WR-B = 0.23 AC

LEGEND:

- PMA — PRIMARY MANAGEMENT AREA (PMA)
- UNMITIGATED 65dBA LINE — UNMITIGATED 65dBA LINE
- SB — STREAM BUFFER
- FP — 100 YEAR FLOODPLAIN
- FP BRL — FLOODPLAIN BUILDING RESTRICTION LINE
- — EDGE OF WATER OF THE US
- — EXISTING TREELINE

- T38 — SPECIMEN TREE TO REMAIN
- T38 — SPECIMEN TREE TO BE REMOVED
- W — WETLANDS
- WB — WETLANDS BUFFER
- — FOREST SAVED, BUT CONSIDERED CLEARED
- — WOODLAND PRESERVATION
- — AFFORESTATION/REFORESTATION AREA
- — FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED

- RP — ROOT PRUNING LINE
- LOD — LIMITS OF DISTURBANCE
- L — STORM DRAIN HEADWALL
- — TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGNS
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- — AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC

M-NCPPC APPROVALS			
PROJECT NAME	Collingbrook Lot 11	PROJECT NUMBER	SP-12006
APPROVED BY	DD	DATE	4/10/12
APPROVED BY	DD	DATE	4/10/12

APPROVED PLAN
SP-12006

M-NCPPC APPROVALS			
PROJECT NAME	Collingbrook Lot 11	PROJECT NUMBER	SP-12006
APPROVED BY	DD	DATE	4/10/12
APPROVED BY	DD	DATE	4/10/12

Petra Engineering LLC

5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044

DATE
MARCH 2009

DESIGNED
NEG

SCALE

1"=50'

JOB NO.

1007

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD

6 OF 12

JOHN HANSON HIGHWAY ~ MD RTE

(VARIABLE R/W)

(MARYLAND SRC PLAT #9976 THRU 9980)

AFFORESTATION/
REFORESTATION
AREA
'11'-1.15 AC

FOREST TO REMAIN
WR-G - 1.10 AC

AFFORESTATION/
REFORESTATION
AREA
'4'-2.27 AC

FOREST TO REMAIN
WR-F - 10.02 AC

AFFORESTATION/
REFORESTATION
AREA
'3'-0.47 AC

AFFORESTATION/
REFORESTATION
AREA
'7'-0.39 AC

LEGEND:

- PMA— PRIMARY MANAGEMENT AREA (PMA)
UNMITIGATED 65dBA LINE UNMITIGATED NOISE CONTOUR
—SB— STREAM BUFFER
—FP— 100 YEAR FLOODPLAIN
—FP BRL— FLOODPLAIN BUILDING RESTRICTION LINE
—EOW— EDGE OF WATER OF THE US
—ETL— EXISTING TREELINE
T38 ○ SPECIMEN TREE TO REMAIN
T38 ✕ SPECIMEN TREE TO BE REMOVED
—W— WETLANDS
—WB— WETLANDS BUFFER
[Hatched Box] FOREST SAVED, BUT CONSIDERED CLEARED
[Dotted Box] AFFORESTATION/
REFORESTATION
AREA
[Stippled Box] FOREST IN FLOODPLAIN
SAVED, BUT NOT COUNTED
[Solid Grey Box] WOODLAND PRESERVATION

- TEMPORARY TREE SAVE SIGN TO BE
INSTALLED PRIOR TO CONSTRUCTION,
AND TO BE REMOVED AT THE TIME
OF INSTALLATION OF PERMANENT
TREE SAVE SIGNS
▲ PERMANENT TREE SAVE SIGN TO
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—TS— TEMPORARY TREE SAVE FENCE TO BE
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REMOVED AT TIME OF AFFORESTATION
(SEE TREE SAVE SILT FENCE DETAIL)
—X—X— AFFORESTATION/PERMANENT TREE SAVE
SPLIT-RAIL FENCING. (SEE SPLIT-RAIL
FENCING DETAIL)
—L— LIMITS OF CRITICAL
ROOT ZONE
—RP— RP— ROOT PRUNING LINE
—LOO— LIMITS OF DISTURBANCE
L STORM DRAIN HEADWALL

M-NCPPC APPROVALS			
PROJECT NAME:		Collingbrook K, Lot 14a	
PROJECT NUMBER:		DSP 12006	
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revisions Listed Below Apply to This Sheet			
Approved by or Revisions #	Approved Date	Reviewer's Initials	Classification from
DD	4/10/12	ERS	4/10/12

APPROVED PLAN
DSP-12006

PRINTED ON
APR 12 2012
PETRA ENGINEERING LLC

M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION APPROVAL TREE CONSERVATION PLAN			
TCP II/100/03			
APPROVED BY	JM	DATE	6-23-03
01	JM	5-18-04	
02	JM	7-28-04	
03	JM	12-08-04	
04	LS	6-03-04	
05	LS	2-23-06	
06	KS	5-6-09	
07	MEGAN REISER	2-13-12	
08	Megan K. Reiser	4/10/12	

Petra Engineering LLC



5840 BANNEKER ROAD, SUITE 100
COLUMBIA, MARYLAND 21044
OFFICE (443) 276-0310
FAX (443) 276-0319

NO.	REVISION	BY	DATE	CHECKED	DATE
1	ADDED PHASING TO PHASE 3	KVC	12/6/2011	DESIGNED	NEG
				TECHNICIAN	NEG
				PLAN LOCATION	1007/ENG/ENV/TCP2/TCP2-S7.SHT
				PEN TABLE	X LEVEL SYMBOLS

SCALE
1"=50'

JOB NO.
1007



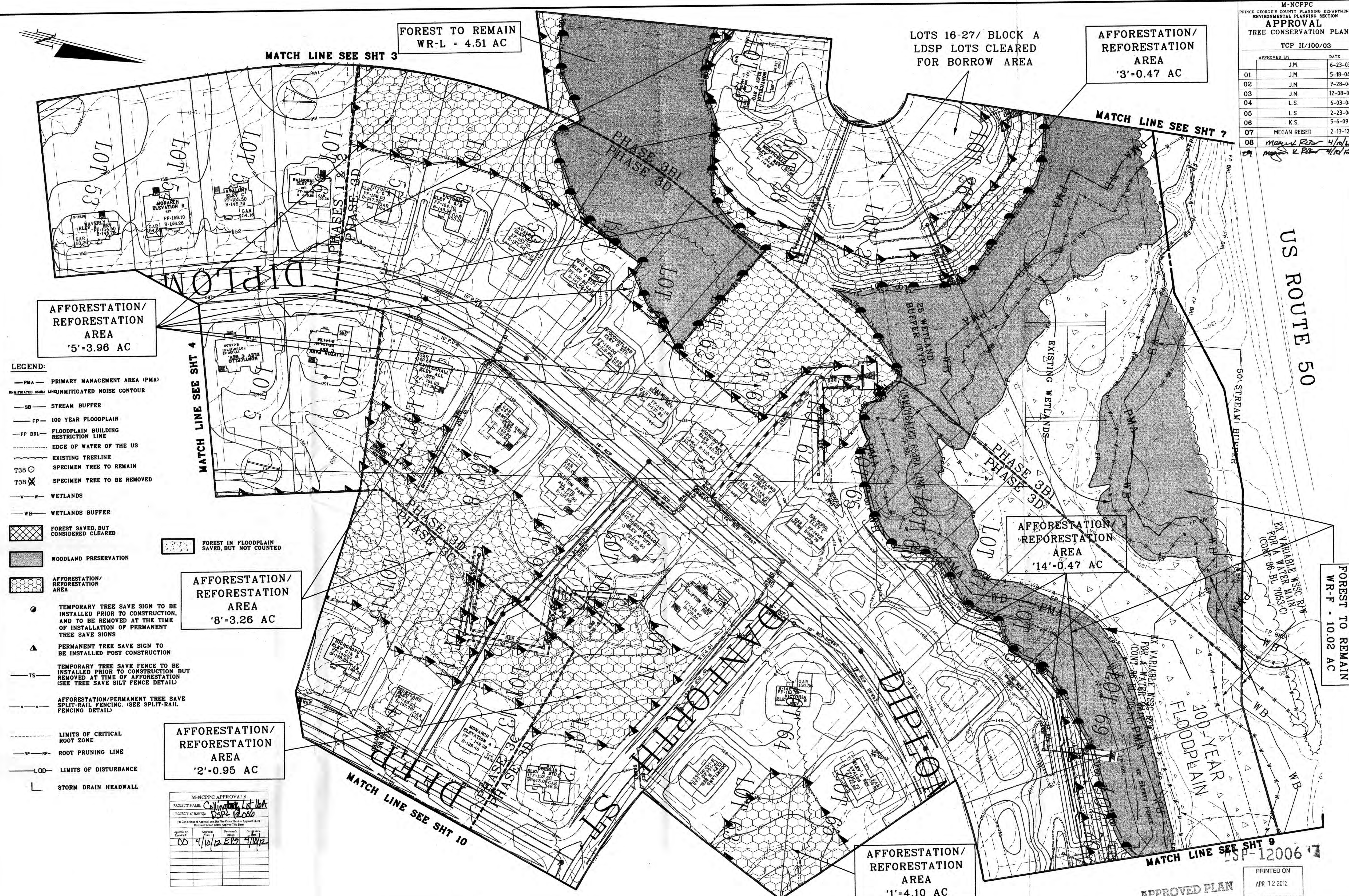
TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II

TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MD

M-NCPPC		
PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT		
ENVIRONMENTAL PLANNING SECTION		
APPROVAL		
TREE CONSERVATION PLAN		
TCP II/100/03		
APPROVED BY	DATE	
01 J.M.	6-23-03	
02 J.M.	5-18-04	
03 J.M.	7-28-04	
04 L.S.	12-08-04	
05 L.S.	6-03-04	
06 L.S.	2-23-06	
07 K.S.	5-6-09	
08 MEGAN REISER	2-13-12	
09 MEGAN REISER	4/10/12	



- LEGEND:**
- PMA — PRIMARY MANAGEMENT AREA (PMA)
 - UNMITIGATED 65DBA LINE/UNMITIGATED NOISE CONTOUR
 - SB — STREAM BUFFER
 - FP — 100 YEAR FLOODPLAIN
 - FP BRL — FLOODPLAIN BUILDING RESTRICTION LINE
 - — EDGE OF WATER OF THE US
 - — EXISTING TREELINE
 - T38 — SPECIMEN TREE TO REMAIN
 - T38X — SPECIMEN TREE TO BE REMOVED
 - W — WETLANDS
 - WB — WETLANDS BUFFER
 - FOREST SAVED, BUT CONSIDERED CLEARED
 - WOODLAND PRESERVATION
 - AFFORESTATION/REFORESTATION AREA
 - TEMPORARY TREE SAVE SIGN TO BE INSTALLED PRIOR TO CONSTRUCTION, AND TO BE REMOVED AT THE TIME OF INSTALLATION OF PERMANENT TREE SAVE SIGNS
 - PERMANENT TREE SAVE SIGN TO BE INSTALLED POST CONSTRUCTION
 - TEMPORARY TREE SAVE FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SPLIT-RAIL FENCING DETAIL)
 - AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING. (SEE SPLIT-RAIL FENCING DETAIL)
 - LIMITS OF CRITICAL ROOT ZONE
 - RP — ROOT PRUNING LINE
 - LOD — LIMITS OF DISTURBANCE
 - — STORM DRAIN HEADWALL

M-NCPPC APPROVALS

PROJECT NAME:	Collingbrook Lot 16A
PROJECT NUMBER:	2009-1000
APPROVED BY:	08 4/10/12 ERS 4/10/12

Petra Engineering LLC
 5840 BANNEKER ROAD, SUITE 100
 COLUMBIA, MARYLAND 21044
 OFFICE (443) 276-0310
 FAX (443) 276-0319

NO.	REVISION	DATE	BY
1	ADDED PHASING TO PHASE 3	12/6/2011	KVC

DATE	MARCH 2009
DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC

SCALE 1"=50'
 JOB NO. 1007
 TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II
TRIANGLE/COLLINGBROOK
 14 TH ELECTION DISTRICT
 PRINCE GEORGE'S COUNTY, MD

FOREST TO REMAIN
 WR-F - 10.02 AC

SHEET 8 OF 12

