

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

**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  
 T38 ○ EXISTING TREELINE  
 T38 ✕ SPECIMEN TREE TO BE REMOVED  
 —W—W— WETLANDS  
 —WB— WETLANDS BUFFER

**FOREST SAVED, BUT CONSIDERED CLEARED**  
C3 = 0.12 AC

**FOREST SAVED, BUT CONSIDERED CLEARED**  
C4 = 0.04 AC

**FOREST SAVED, BUT CONSIDERED CLEARED**  
C1 = 0.01 AC

**FOREST SAVED, BUT CONSIDERED CLEARED**  
C2 = 0.16 AC

**FOREST SAVED, BUT CONSIDERED CLEARED**  
C5 = 0.19 AC

**FOREST TO REMAIN**  
WR-C = 0.36 AC

**FOREST TO REMAIN**  
WR-D = 6.48 AC

**FOREST TO REMAIN**  
WR-A = 10.86 AC

**FOREST TO REMAIN**  
WR-B = 0.23 AC

**AFFORESTATION/REFORESTATION AREA**  
12'-0.11 AC

**PRINTED ON**  
APR 1 2009

**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 K.S.	2-23-06
07 M.R.	5-6-09
08 M.R.	2-13-12
09 M.R.	7/10/12

**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)**

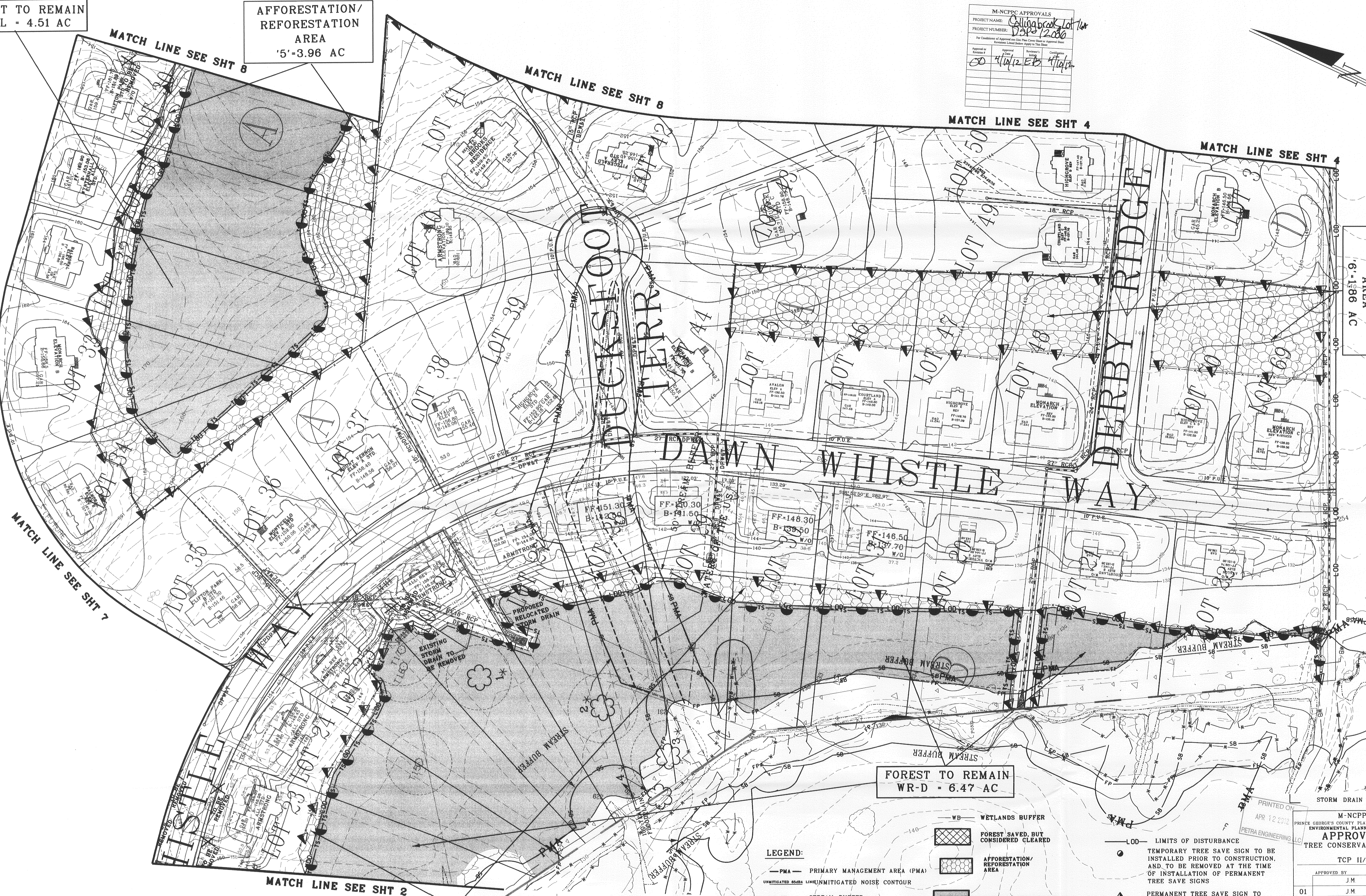
**AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING (SEE SPLIT-RAIL FENCING DETAIL)**

FOREST TO REMAIN  
WR-L - 4.51 AC

AFFORESTATION/  
REFORESTATION  
AREA  
'5'-3.96 AC

M-NCPPC APPROVALS			
PROJECT NAME	PROJECT NUMBER	APPROVED BY	DATE
Collingbrook Lot 140	13P-12006		
For Conditions of Approval, see the Project Report to be Approved Sheet			
Approved by	Approved Date	Reviewed by	Reviewed Date
	4/10/12	EB	4/10/12

AFFORESTATION/  
REFORESTATION  
AREA  
'6'-1.986 AC



FOREST TO REMAIN  
WR-D - 6.47 AC

AFFORESTATION/  
REFORESTATION  
AREA  
'13'-0.40 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
- 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
- W - WETLANDS
- RP - ROOT PRUNING LINE

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

DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC

PLAN LOCATION	1007/ENG/ENV/TCP2/TCP2_S3.SHT
PEN TABLE	X
LEVEL SYMBOLS	

SCALE  
1"=50'

JOB NO.  
1007

DATE  
MARCH 2009

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II  
APPROVED PLAN CSP-12006  
**TRIANGLE/COLLINGBROOK**

14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD



- LEGEND:**
- PMA — PRIMARY MANAGEMENT AREA (PMA)
  - UNMITIGATED NOISE LINE — UNMITIGATED NOISE CONTOUR
  - SB — STREAM BUFFER
  - FP — 100 YEAR FLOODPLAIN
  - PP-BRL — FLOODPLAIN BUILDING RESTRICTION LINE
  - EDGE OF WATER OF THE US
  - EXISTING TREELINE
  - T38 — SPECIMEN TREE TO REMAIN
  - T38 X — SPECIMEN TREE TO BE REMOVED
  - 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 — 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 10A		
PROJECT NUMBER:	DAP-12056		
Per Conditions of Approval on Site Plan Cover Sheet or Approval Sheet Exemptions Listed Below Apply to This Sheet:			
Approved by Signature	Approved Date	Reviewer's Initials	Certification Date
DD	4/10/12	EPS	4/10/12
	</		

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	
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 K.S.	2-23-06	
07 MEGAN REISER	5-6-09	
08 Megan K. Reiser	2-13-12	

Petra Engineering LLC

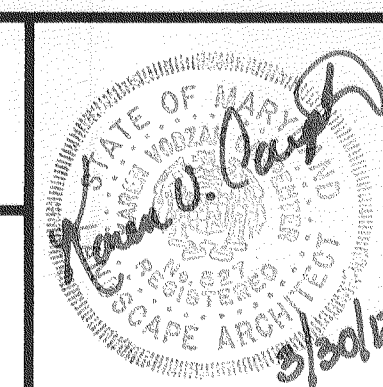
5840 BANNEKER ROAD, SUITE 100  
COLUMBIA, MARYLAND 21044  
OFFICE (443) 276-0310  
FAX (443) 276-0319

NO.	REVISION	BY	DATE
1			

DATE  
MARCH 2009  
DESIGNED  
NEG  
TECHNICIAN  
NEG  
CHECKED  
KVC

PLAN LOCATION 1007/ENG/ENV/TC/2/CP2.S4.SHT  
PEN TABLE  
X LEVEL SYMBOLLOGY

SCALE  
1"=50'  
JOB NO.  
1007



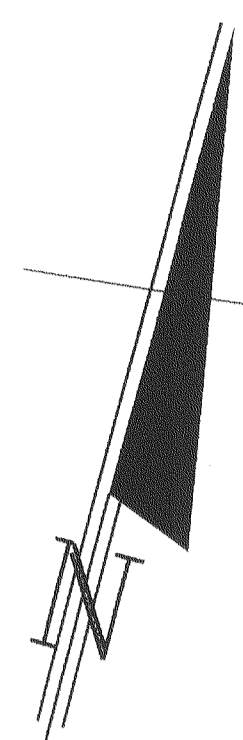
TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II  
APPROVED PLAN  
TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

SHEET  
4 OF  
12





CHURCH ROAD

FOREST SAVED, BUT  
CONSIDERED CLEARED  
C15 = 0.04 AC

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

FOREST TO REMAIN  
WR-A = 8.98 AC

AFFORESTATION/  
REFORESTATION  
AREA 11 = 1.15 AC

PARCEL "A"  
LIBER 19431 FOLIO 728  
M-NCPPC  
AREA = 21.1 AC

FOREST TO REMAIN  
WR-B = 0.23 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
  - EDGE OF WATER OF THE US
  - EXISTING TREELINE
  - T38 — SPECIMEN TREE TO REMAIN
  - T38 X — 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
  - 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
  - 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 APPROVALS				
PROJECT NAME:		Collingbrook Lot 11A		
PROJECT NUMBER:		551-12006		
For Conditions of Approval see the Tree Conservation Plan and the Tree Conservation Plan Addendum. For Conditions of Approval see the Tree Conservation Plan and the Tree Conservation Plan Addendum.				
Approved/ Reviewed:	Approval Date	Reviewer's Initials	Certification Date	
DD	4/10/12	505	4/10/12	

PRINTED ON

APR 12 2012

M-NCPPC

PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT  
ENVIRONMENTAL PLANNING SECTION

APPROVAL

FREE 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 J M 12-08-04

05 L S 6-03-04

06 L S 2-23-06

07 K S 5-6-09

07 MEGAN REISER 2-13-12

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	DJW	12/6/2011	NEG	
				KVC	

DATE	MARCH 2009
DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC

PLAN LOCATION	1007/ENG/ENV/TCP2/TCP2-S6 SH
PEN TABLE	X LEVEL SYMBOL

SCALE	1"=50'
JOB NO.	1007

DATE	4/10/12
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TREE CONSERVATION PLAN TYPE II

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

14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

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

# JOHN HANSON HIGHWAY ~ MD RTE

(VARIABLE R/W)

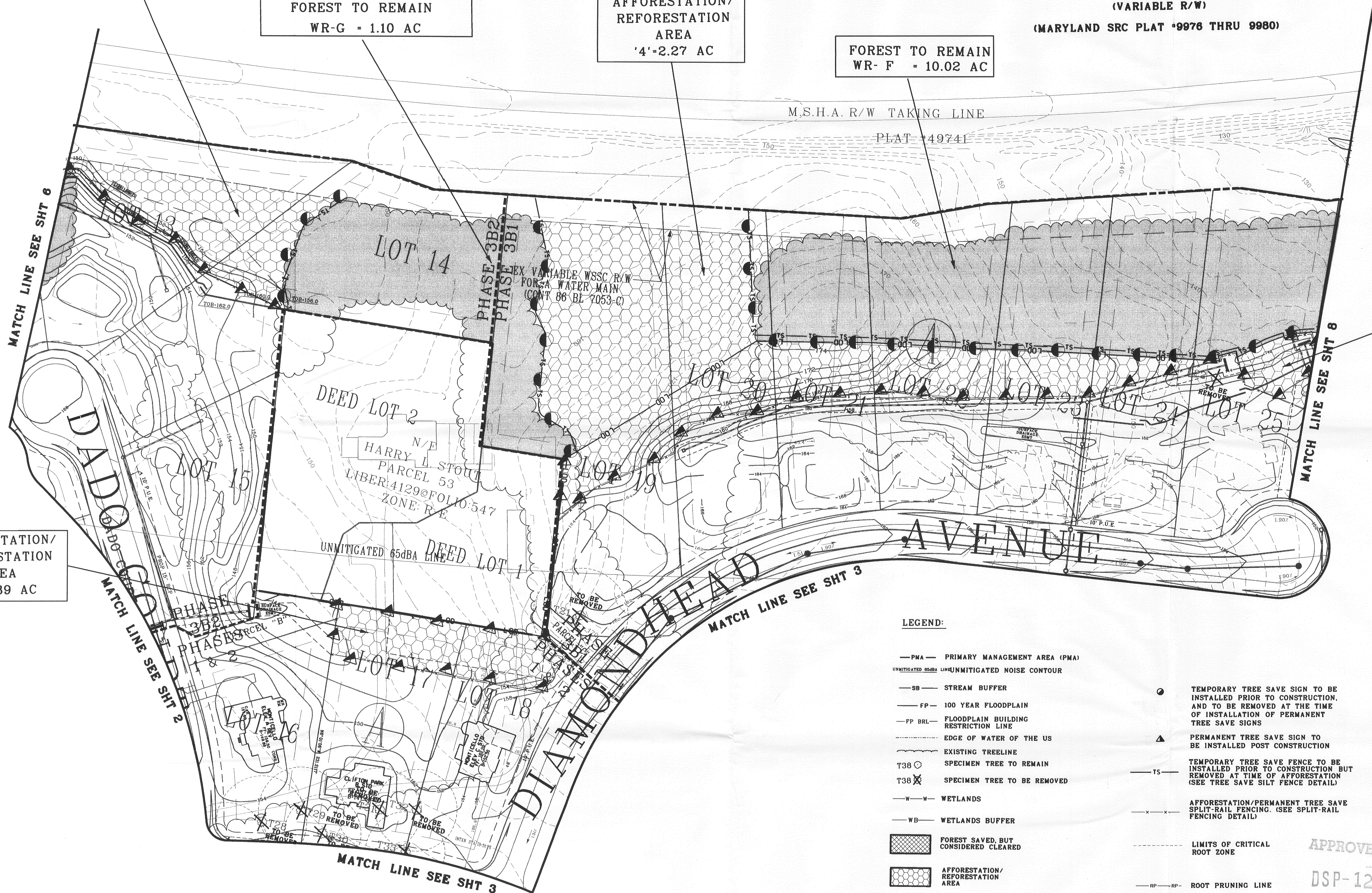
(MARYLAND SRC PLAT '9976 THRU 9980)

M.S.H.A. R/W TAKING LINE

PLAT #49741

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
- E— EDGE OF WATER OF THE US
- T38— EXISTING TREELINE
- T38— SPECIMEN TREE TO REMAIN
- T38— SPECIMEN TREE TO BE REMOVED
- W— WETLANDS
- WB— WETLANDS BUFFER
- F— FOREST SAVED, BUT CONSIDERED CLEARED
- A— AFFORESTATION/REFORESTATION AREA
- F— FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
- W— WOODLAND PRESERVATION
- TS— 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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- TS— TEMPORARY TREE SAVE FENCE TO BE INSTALLED PRIOR TO CONSTRUCTION BUT REMOVED AT TIME OF AFFORESTATION (SEE TREE SAVE SILT FENCE DETAIL)
- X— AFFORESTATION/PERMANENT TREE SAVE SPLIT-RAIL FENCING. (SEE SPLIT-RAIL FENCING DETAIL)
- L— LIMITS OF CRITICAL ROOT ZONE
- RP— ROOT PRUNING LINE
- L— LIMITS OF DISTURBANCE
- L— STORM DRAIN HEADWALL

M-NCPPC APPROVALS			
PROJECT NAME:	Collingbrook, Lot 14		
PROJECT NUMBER:	DSP-12006		
For Conditions of Approval see Site Plan Cover Sheet or Approval Sheet Revisions Listed Below Apply to This Sheet			
Approved or Revision #	Approval Date	Reviewer's Initials	Certification Date
00	4/10/12	ERS	4/10/12

## M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION APPROVAL TREE CONSERVATION PLAN

TCP 11/100/03		
APPROVED BY	DATE	
JM	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 Reiser	4/10/12

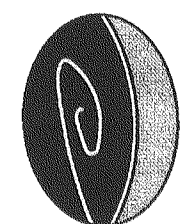
APPROVED PLAN

DSP-12006

PRINTED ON  
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	CHECKED	DATE	DESIGNED	TECHNICIAN	PLAN LOCATION	PEN TABLE	LEVEL SYMBOL
1	ADDED PHASING TO PHASE 3	KVC	12/6/2011			NEG	NEG	1007/ENG/ENV/TC2/TC2.57.SHT		

SCALE  
1"=50'

JOB NO.  
1007



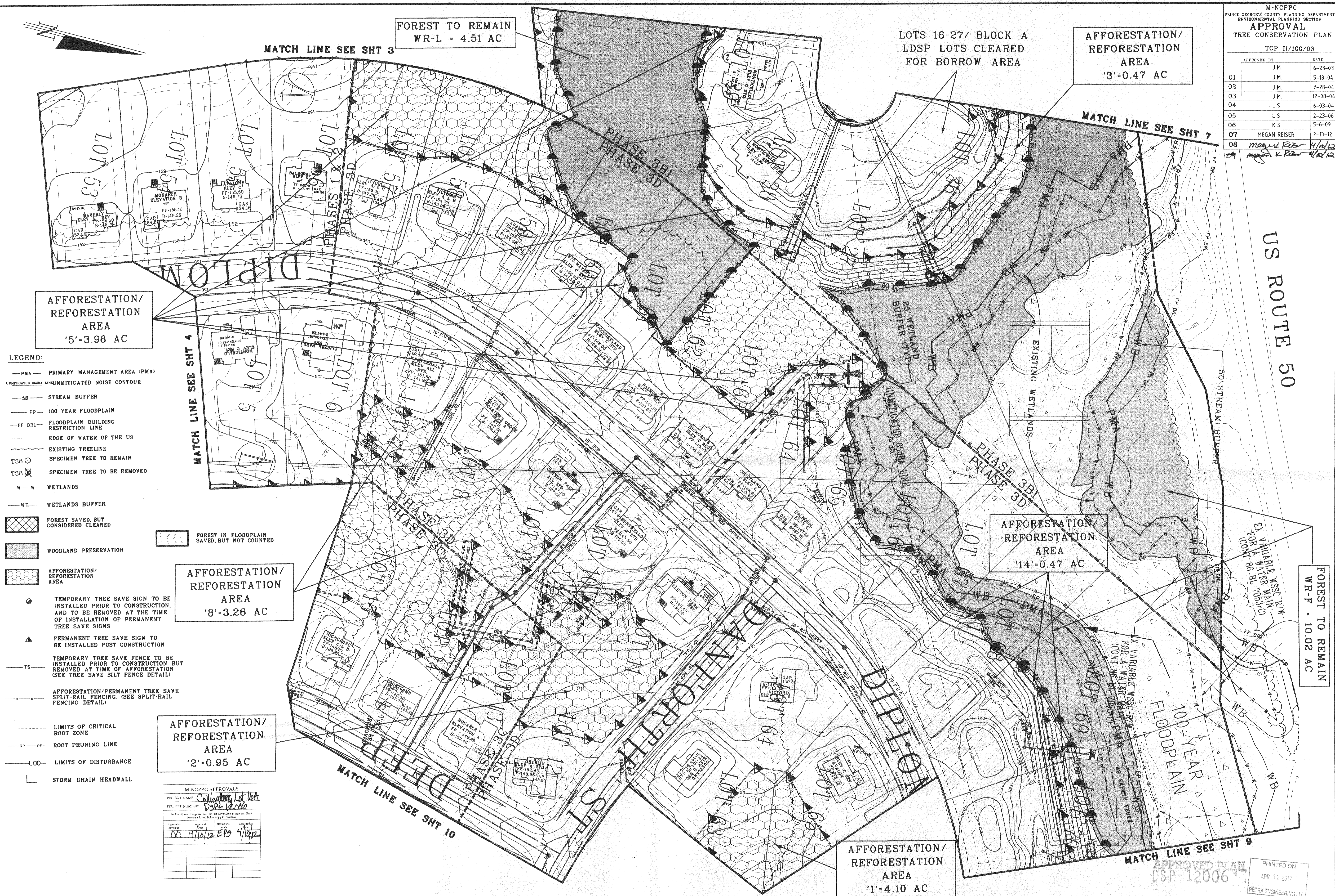
## TREE CONSERVATION PLAN TYPE II

## TREE CONSERVATION PLAN TYPE II TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

US ROUTE 50

FOREST TO REMAIN  
WR-F = 10.02 AC



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

DESIGNED	NEG
TECHNICIAN	NEG
CHECKED	KVC

JOB NO.  
**1007**

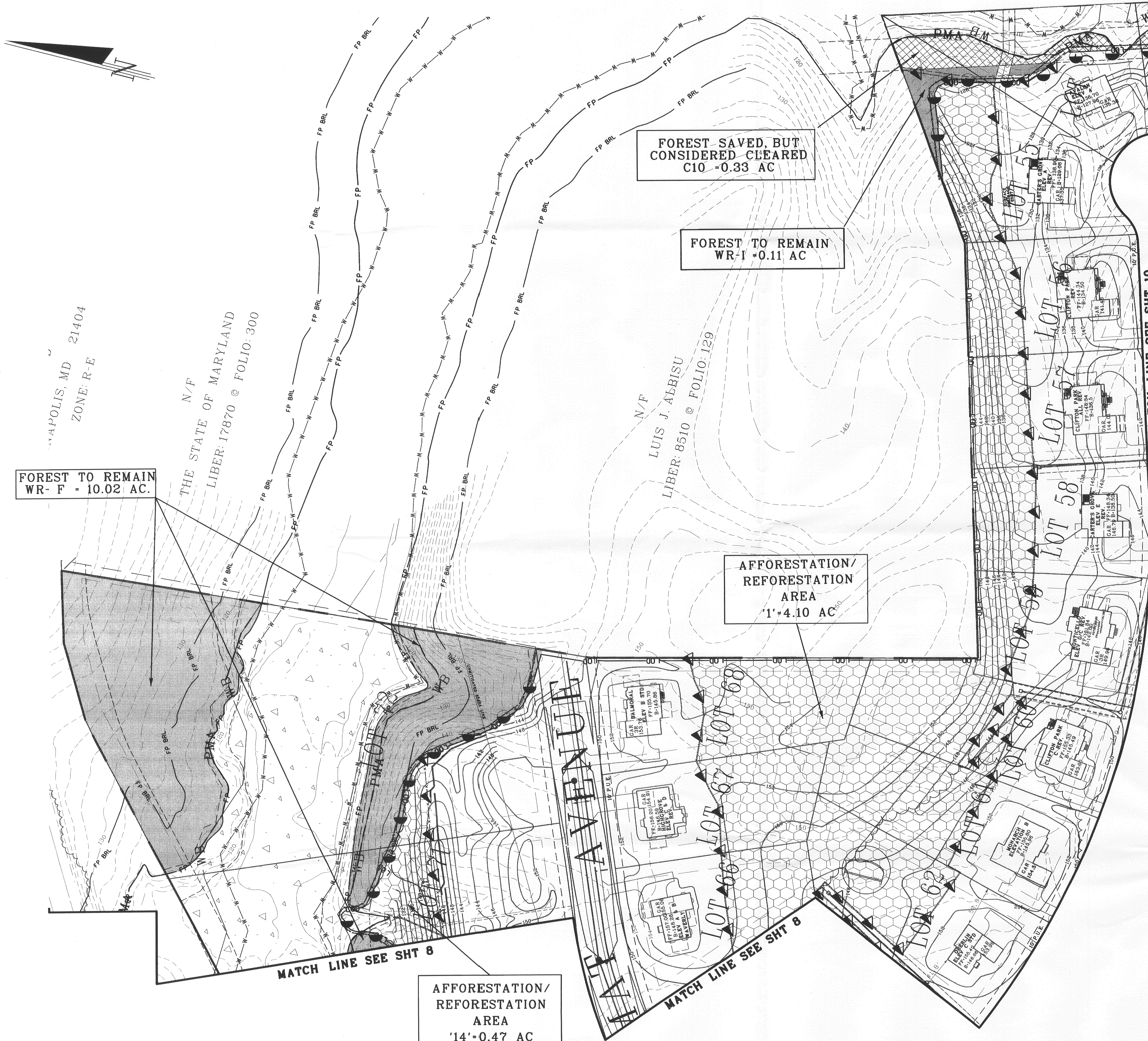
Seal of the State of Maryland. The seal features the text "STATE OF MARYLAND" and "1776". A signature, "Ramon O. Carras", is written across the seal. The date "2/30/16" is written in the bottom right corner.

RECEIVED  
SCAPE ARCHITECT  
3/30/11

## TRIANGLE/COLLINGBROOK

14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

SHEET  
8 OF  
12



LEGEND:

- PMA — PRIMARY MANAGEMENT AREA (PMA)
- 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 X — SPECIMEN TREE TO BE REMOVED
- W — WETLANDS
- WB — WETLANDS BUFFER
- FOREST SAVED, BUT CONSIDERED CLEARED
- AFFORESTATION/REFORESTATION AREA
- FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
- WOODLAND PRESERVATION
- LOD — LIMITS OF DISTURBANCE
- STORM DRAIN HEADWALL
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- 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)
- LIMITS OF CRITICAL ROOT ZONE
- RP — ROOT PRUNING LINE

M-NCPPC APPROVALS			
PROJECT NAME:	Collingbrook Lot 10A		
PROJECT NUMBER:	DSP-12006		
For Conditions of Approval and Site Plan Check Sheet or Approval Sheet Revisions Listed Below Apply to This Sheet			
Approval or Revision #	Approval Date	Reviewer's Initials	Certification Date
00	4/10/12	ERS	4/10/12
</			

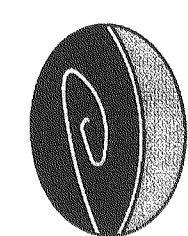
M-NCPPC PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT ENVIRONMENTAL PLANNING SECTION APPROVAL TREE CONSERVATION PLAN			
TCP II/100/03			
APPROVED BY	DATE		
01	JM	6-23-03	
02	JM	5-18-04	
03	JM	7-28-04	
04	LS	12-08-04	
05	LS	6-03-04	
06	LS	2-23-06	
07	KS	5-6-09	
08	MEGAN REISER	2-13-12	
09	Megan K. Reiser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

APPROVED PLAN

DSP-12006

PRINTED ON  
APR 12 2012  
PETRA ENGINEERING LLC

Petra Engineering LLC



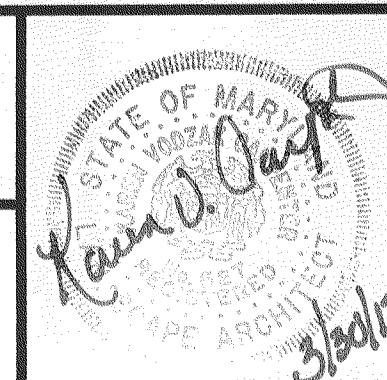
5840 BANNEKER ROAD, SUITE 100  
COLUMBIA, MARYLAND 21044  
OFFICE (443) 276-0310  
FAX (443) 276-0319

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

AFFORESTATION/  
REFORESTATION  
AREA  
14' = 0.47 AC

SCALE  
1" = 50'

JOB NO  
1007

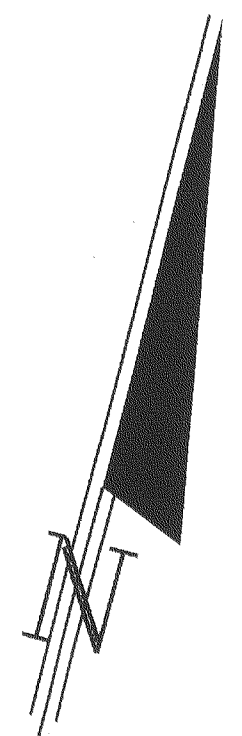


TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II  
**TRIANGLE/COLLINGBROOK**

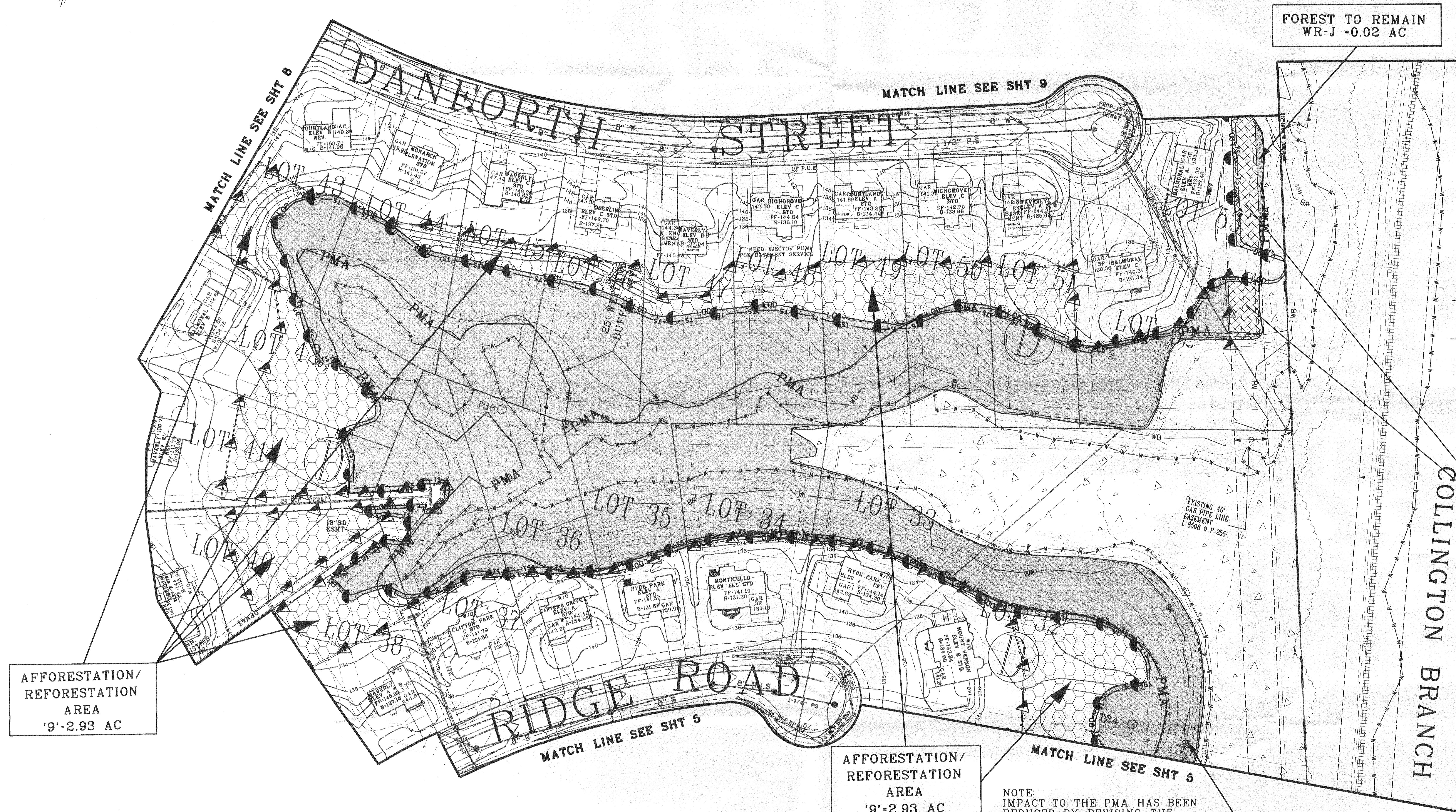
14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

9 OF  
12



LEGEND:

- PMA — PRIMARY MANAGEMENT AREA (PMA)
- UNMITIGATED 85DBA 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
- T38 X — SPECIMEN TREE TO BE REMOVED
- W — WETLANDS
- WB — WETLANDS BUFFER
- FOREST SAVED, BUT CONSIDERED CLEARED
- AFFORESTATION/ REFORESTATION AREA
- FOREST IN FLOODPLAIN SAVED, BUT NOT COUNTED
- WOODLAND PRESERVATION
- LOO — LIMITS OF DISTURBANCE
- 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)
- LIMITS OF CRITICAL ROOT ZONE
- RP — 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

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

FOREST TO REMAIN  
WR-E = 11.55 AC

M-NCPPC APPROVALS				
PROJECT NAME: Collington Lot 16A				
PROJECT NUMBER: DAP-12006				
For Conditions of Approval and Use, See Conditions of Approval Sheet.				
Approved by	Approved Date	Reviewed by	Reviewed Date	Comments
DD	4/10/12	ERS	4/10/12	

M-NCPPC APPROVALS				
PRINCE GEORGE'S COUNTY PLANNING DEPARTMENT				
ENVIRONMENTAL PLANNING SECTION				
APPROVAL				
TREE CONSERVATION PLAN				
TCP 11/100/03				
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 K.S.	2-23-06			
07 MEGAN REISER	5-6-09			
08 MEGAN REISER	2-13-12			
09 MEGAN REISER	4/10/12			

PRINTED ON  
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	DESIGNED	TECHNICIAN	CHECKED	DATE	PLAN LOCATION	1007/ENG/ENV/TCP2/S10.SHT	PEN TABLE	X LEVEL SYMBOL
1				NEG	NEG	KVC					

SCALE  
1"=50'  
JOB NO.  
1007

TREE CONSERVATION PLAN TYPE II

TREE CONSERVATION PLAN TYPE II  
TRIANGLE/COLLINGBROOK

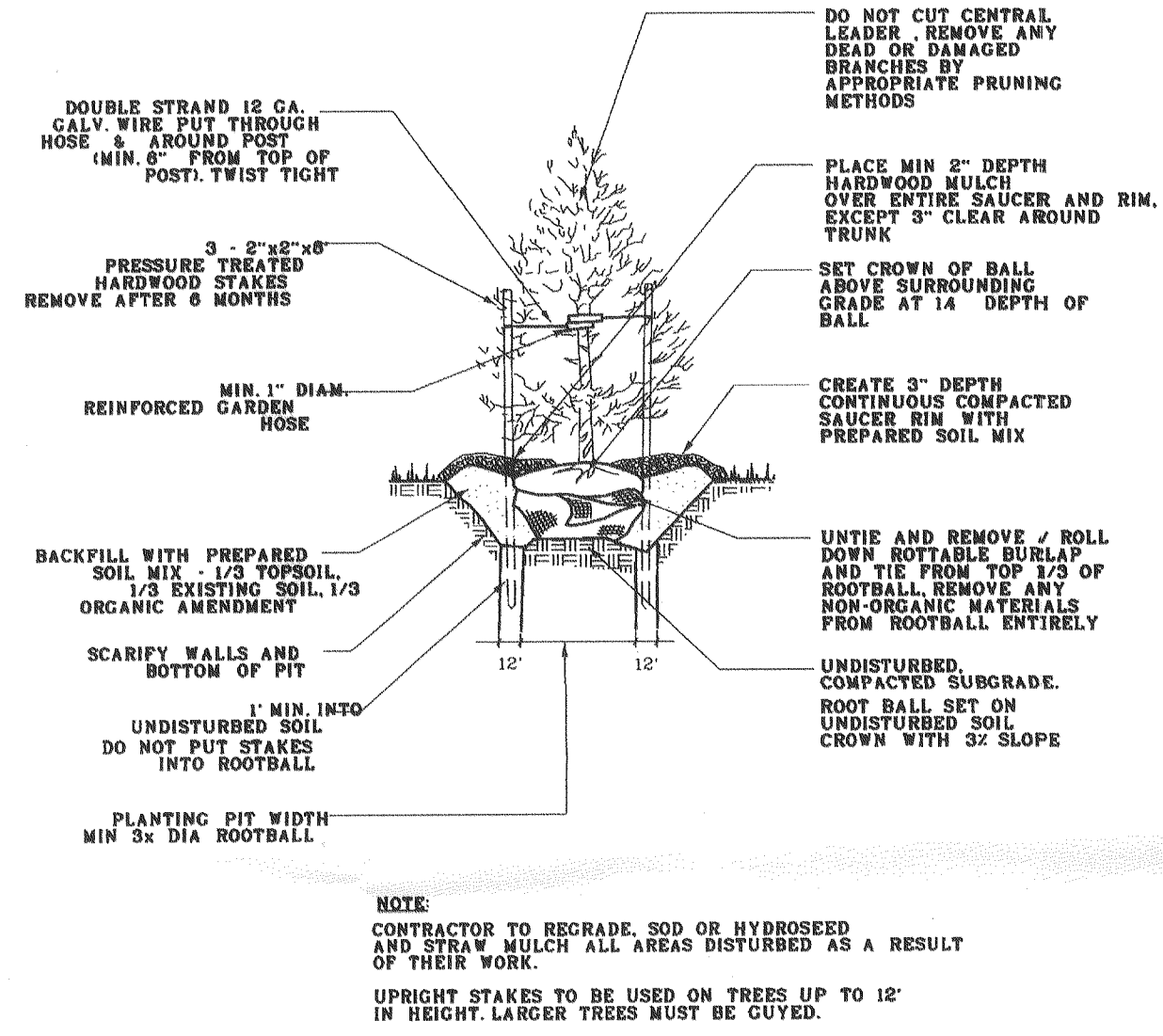
14 TH ELECTION DISTRICT  
PRINCE GEORGE'S COUNTY, MD

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.
- Property owners shall be notified by the Developer or Contractor of any Woodland Conservation Areas (Tree Save Areas, Reformation 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 TCP/II 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 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 Reformation 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 Reformation 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

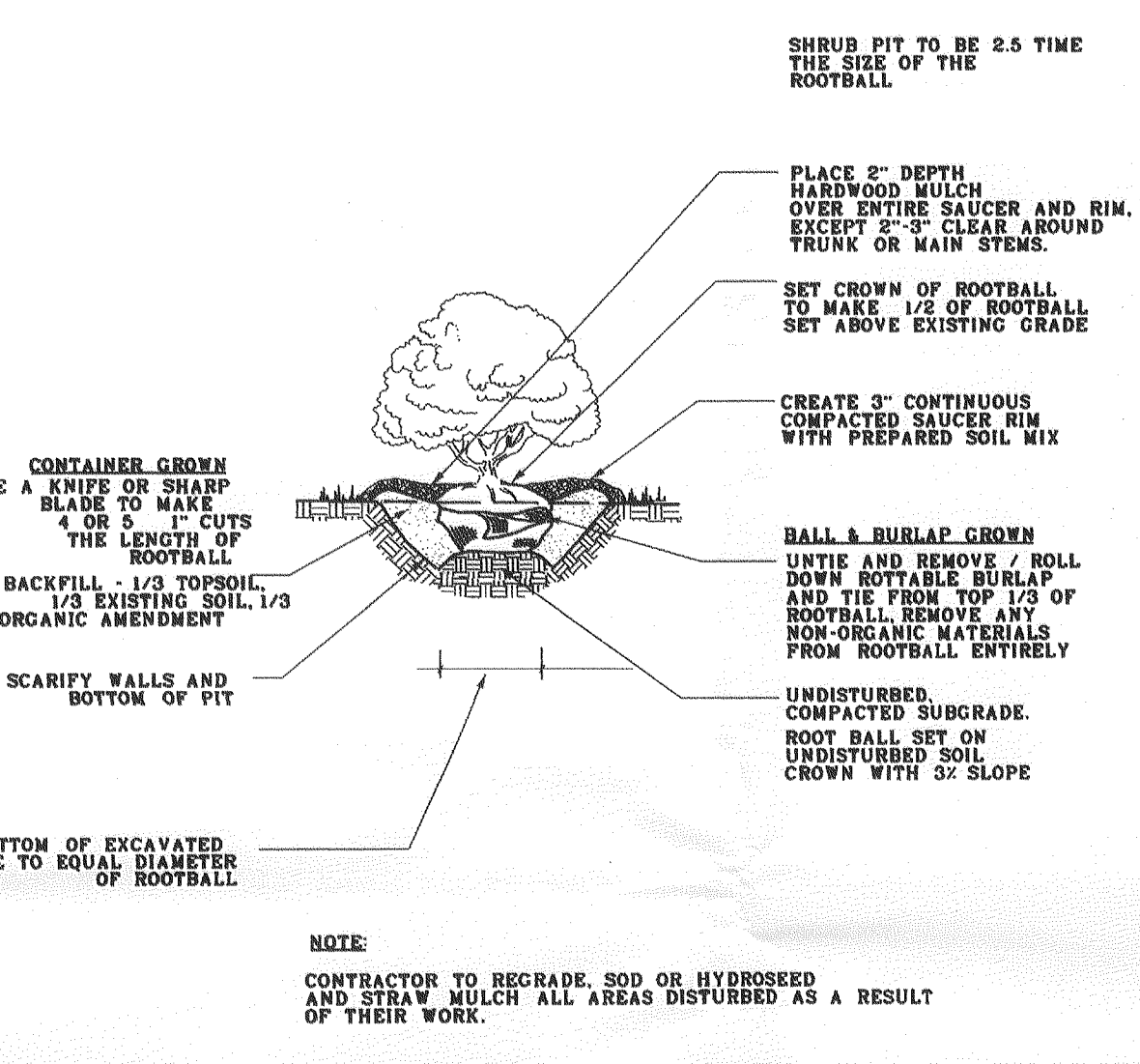
NOT TO SCALE



NOTE: CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRIP MUCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK. UPRIGHT STAKES TO BE USED ON TREES UP TO 12" IN HEIGHT. LARGER TREES MUST BE CUT.

SHRUB PLANTING DETAIL

NOT TO SCALE



NOTE: CONTRACTOR TO REGRADE, SOD OR HYDROSEED AND STRIP MUCH ALL AREAS DISTURBED AS A RESULT OF THEIR WORK.

REFORESTATION INSPECTION AND PLANTING NARRATIVE

- REFORESTATION INSPECTION SCHEDULE  
THERE SHALL BE FIVE INSPECTIONS FOR FOREST CONSERVATION.  
A. 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.  
B. 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.  
C. THE THIRD INSPECTION SHALL OCCUR PRIOR TO PLANTING IN REFORESTATION AREAS. THIS INSPECTION IS TO MAKE FINAL DECISIONS REGARDING THE BEST IMPLEMENTATION OF PLANT SPECIES, DETERMINATION OF THE REFORESTATION POTENTIAL OF EXISTING PLANTS TO DELIVER 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.  
D. THE FOURTH INSPECTION SHALL OCCUR IMMEDIATELY FOLLOWING THE COMPLETION OF THE REFORESTATION PLANTING. THIS INSPECTION IS TO DETERMINE THE COMPLETION AND ADEQUACY OF THE PLANTING.  
E. 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 PLANTING, THE COMPLETION OF THE MAINTENANCE PROGRAM, A FINAL DETERMINATION WILL BE MADE AT THIS TIME AS TO WHETHER ADDITIONAL PLANTINGS AND A FURTHER MAINTENANCE PROGRAM ARE NECESSARY.
- PRE-PLANTING CONSIDERATIONS  
A. IN AREAS WITH SUBSTANTIAL GROWTH OF INVASIVE GROUND COVER SPECIES, MEASURES SHALL BE TAKEN TO REDUCE AND CONTROL INVASIVE. THE INVASIVE AREAS SHOULD BE REMOVED PRIOR TO PLANTING. NECESSARY WEED CONTROL MEASURES SHOULD BE RECOMMENDED PRIOR TO PLANTING. THE PLANTING INSPECTION, INCLUDING, BUT NOT LIMITED TO MOWING, PERIODIC MOWING AROUND THE REFORESTATION PLANTINGS, AND PASTURE COVERINGS. THE USE OF CHEMICAL WEED CONTROL WILL BE RELIANT TO EXTREME CASES AND ONLY WITH PRIOR WRITTEN APPROVAL BY M-NCPPC STAFF. WHEN PERIODIC MOWING WILL OCCUR AS A WEED CONTROL MEASURE, THE TREE PLANTING DISTRIBUTION PATTERN SHOULD BE MODIFIED SO AS TO ALLOW ACCESS BY MOWING EQUIPMENT WITHOUT DAMAGE TO PLANTINGS.  
B. A SOIL ANALYSIS WILL BE CONDUCTED PRIOR TO COMMENCEMENT OF REFORESTATION. ON LAND WHERE EXTENSIVE AGRICULTURAL USE HAS OCCURRED IN THE PAST, TEST PITS WILL BE DUG IN AREAS OF SUSPECTED SOIL TO DETERMINE IF A FRAGILAN LAYER IS PRESENT. IF FRAGILAN IS PRESENT, IT SHOULD BE PIERCED BY AUGERING AND PLANTING MATERIALS SHOULD BE DUG TO TWICE THE NORMAL DEPTHS FOR THE MATERIAL PLANTED.  
C. SOILS SHOULD BE TREATED BY INCORPORATING NATURAL MULCH WITHIN THE TOP 12 INCHES, OR AMENDMENTS AS DETERMINED BY THE SOILS ANALYSIS. NATURAL AMENDMENTS, SUCH AS ORGANIC MULCH OR LEAF MOLD COMPOST ARE PREFERRED.  
D. IF FILL MATERIAL IS USED AT THE PLANTING SITE, IT SHOULD BE CLEAN FILL WITH 12 INCHES OF NATIVE SOIL. STOCKPILING OF NATIVE TOP SOIL MUST BE DONE IN SUCH A WAY THAT THE HEIGHT OF THE PILE DOES NOT DAMAGE THE SEDIMENT BANK.  
E. 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 STORED IN A NURSERYMAN SPECIFIED FOR SIZE, FORM, VIGOR, ROOTS, TRUNK WOUNDS, INSECTS, AND DISEASE SHOULD BE REPLACED.  
F. 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.  
G. PLANTING SPECIFICATIONS  
A. CONTAINER GROWN STOCK: SUCCESSFUL PLANTING OF CONTAINER GROWN STOCK REQUIRES CAREFUL SITE PREPARATION AND INSPECTION OF THE PLANT MATERIAL ROOT SYSTEM. CAUTION IS RECOMMENDED WHEN SELECTING PLANTS GROWN IN A SOIL MEDIUM DIFFERING FROM THAT OF THE PLANTING SITE. THE PLANT SHOULD BE REMOVED FROM THE CONTAINER AND THE ROOTS GENTLY LOOSENED FROM THE SOILS. IF THE ROOTS BREAK, THE ROOT BALL SHOULD BE REMOVED. IT IS STRONGLY RECOMMENDED THAT A SHARP OR KINKED ROOT SYSTEMS SHOULD BE REMOVED. NATIVE STOCKED SOILS SHOULD BE USED TO BACKFILL PLANTING PITS. PREPARED AS SPECIFIED. NATIVE STOCKED SOILS SHOULD BE USED TO BACKFILL PLANTING PITS. RAKE SOILS EVENLY OVER THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.  
B. 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. BOTH BRANCHES WILL TEND TO SEPARATE THE TRUNK FROM THE ROOT BALL. PRIOR TO PLANTING, ROOT BALLS SHOULD BE KEPT MOIST.  
C. PLANTING FIELDS SHOULD BE CREATED EQUAL TO 2.5 TIMES THE DIAMETER OF THE ROOT BALL. AVAILABLE SOIL SHOULD BE USED TO BACKFILL THE PLANTING FIELD. AMENDMENTS ARE RECOMMENDED IN THE PLANTING FIELD, AS STUDIES HAVE SHOWN THAT ROOTS WILL BE ENCOURAGED TO STAY WITHIN THE AMENDMENT THAT ROOTS WILL BE ENCOURAGED TO STAY WITHIN THE PLANTING FIELD AND COVER WITH 2 TO 4 INCHES OF MULCH.  
D. STAKING OF TREES IS NOT RECOMMENDED EXCEPT IN AREAS OF HIGH WINDS. MOVEMENT IS NOT RECOMMENDED AFTER THE FIRST GROWING SEASON. IF STAKES ARE USED, THEY SHOULD BE REMOVED AFTER THE FIRST GROWING SEASON. WEAPONS ARE ALSO NOT RECOMMENDED DUE TO THE INCREASED OPPORTUNITIES FOR INSECT INFESTATION AND DISEASE.
- POST-PLANTING CONSIDERATIONS  
A. SOIL STABILIZATION: FOR AREAS OF LARGE-SCALE DISTURBANCE, SOILS MUST BE STABILIZED USING A NON-TRE-BUILDING GROUND COVER OR ENGINEERING FABRIC.  
B. 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.  
C. 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 DESTRUCTION RESULTING FROM A FAILURE TO COMPLY WITH THE APPROVED DEER MANAGEMENT PROGRAM MUST BE REPAIRED BEFORE REFORESTATION BONDS WILL BE RELEASED.  
D. 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 (ATree, 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 leave 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 area 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 Owned by Individual Homeowners

- 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 work conducted. 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 the debris shall be removed. The removal or grinding of the stumps in the woodland conservation area is not permitted.
  - The removal of noxious, invasive, and non-native 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 12 inches diameter may be removed from the area and disposed of appropriately. All material from these noxious, invasive, and non-native plants greater than 12 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 trained 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 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.
- 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 Plan. The plan shall be filed with the Office of the Waterways Planning Section located on the 4th floor of the County Administration Building at 14741 Queen Anne Drive, Upper Marlboro, Maryland 20772. Photo 301-952-5011. Additional mitigation will be required for the clearing of all woodlands beyond that indicated on the approved plan. 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.
- 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 disturbance which would result in damage to the tree roots. Keeping the leaves and overhanging with native grasses, native flowers or native vegetation is acceptable. Seeding with invasive grasses including any variety of Kentucky 31 fescue is not acceptable.

5-YEAR MANAGEMENT PLAN FOR REAFFORESTATION

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

- Year 1: Site Preparation and Tree Planting  
Survival check once annually (September-November, see Note 1)  
Reforestation check once annually (September-November)  
Control of undesirable vegetation as needed (1 x in June & 1 x in September)

- Year 2-3: Reforestation planting if needed (see Note 2)  
Survival check once annually (September-November)  
Control of undesirable vegetation if needed (1 x in June & 1 x in September)

- Year 4-5: Reforestation planting if needed (see Note 2)  
Survival check once annually (September-November)

- Notes:
- Survival Check: Check planted stock against plant list (or on-bill) by walking the site and taking inventory. Plants must show vitality. Submit field data forms (Condition Check Sheets) to owner after each inspection. Remove all dead stock.
  - Reforestation Planting: Replace dead or missing plants in sufficient quantity to bring the total number of live plants to at least 75% of the number originally planted. If a particular species suffers unusually high mortality, replace with an alternate plant type.
  - Miscellaneous: Fertilization or watering during years 1 through 5 will be done on an as needed basis. Special 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.

APPROVED PLAN  
DSP-12006

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

Figure 1

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

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 4/1/12

09 Megan K. Reiser 4/1/12

11 OF 12

12

TOTAL SHEETS IN SET 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/TCP2/TCP2-SH-SHT

PEN TABLE

X

LEVEL SYMBOLOLOGY

SCALE

NTS

JOB NO.

1007

STATE OF MARYLAND

PRINCE GEORGE'S COUNTY

PLANNING DEPARTMENT

ENVIRONMENTAL PLANNING SECTION

APPROVED

DATE

3/2/09

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

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 to be mowed, however, the management of competing vegetation around individual trees is acceptable.

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 1				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	108		
ACER RUBRUM	RED MAPLE	45		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	45		
FAGUS GRANDIFOLIA	AMERICAN BEECH	45		
QUERCUS PALUSTRIS	PIN OAK	45		
PRUNUS SEROTINA	BLACK CHERRY	45		
QUERCUS ALBA	WHITE OAK	45		
NYSSA SYLVATICA	BLACKGUM	45		
TOTAL TREES:		500		
TOTAL SEEDLING EQUIVALENT:		2500		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
HAMMELIS VIRGINIANA	COMMON WITCHHAZEL	65		
LINERA BEZOIN	SPIGEBUSH	67		
CERCIS CANADENSIS	REDBUD	28		
TOTAL TREES:		200		
TOTAL SEEDLING EQUIVALENT:		600		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	25		
ILEX OPACA (MALE)	AMERICAN HOLLY	25		
WHITE PINE	WHITE PINE	75		
LOBLOLLY PINE	LOBLOLLY PINE	75		
TOTAL TREES:		225		
TOTAL SEEDLING EQUIVALENT:		900		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
WINTER RED CORYMBOSUM	WINTER RED CORYMBOSUM	25		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	25		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	25		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	25		
TOTAL SHRUBS:		100		
TOTAL SEEDLING EQUIVALENT:		100		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 2				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	14		
ACER RUBRUM	RED MAPLE	8		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	14		
FAGUS GRANDIFOLIA	AMERICAN BEECH	14		
DIOSPYROS VIRGINIANA	AMERICAN PERSIMMON	14		
PRUNUS SEROTINA	BLACK CHERRY	14		
QUERCUS ALBA	SOUTHERN RED OAK	14		
NYSSA SYLVATICA	BLACKGUM	14		
TOTAL TREES:		140		
TOTAL SEEDLING EQUIVALENT:		700		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	12		
PRUNUS SEROTINA	BLACK CHERRY	12		
CERCIS CANADENSIS	REDBUD	3		
TOTAL TREES:		37		
TOTAL SEEDLING EQUIVALENT:		111		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	15		
ILEX OPACA (MALE)	AMERICAN HOLLY	15		
TOTAL TREES:		30		
TOTAL SEEDLING EQUIVALENT:		150		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	6		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	6		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	7		
TOTAL SHRUBS:		19		
TOTAL SEEDLING EQUIVALENT:		19		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 3				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	11		
ACER RUBRUM	RED MAPLE	8		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	8		
FAGUS GRANDIFOLIA	AMERICAN BEECH	8		
QUERCUS PALUSTRIS	PIN OAK	8		
PRUNUS SEROTINA	BLACK CHERRY	8		
QUERCUS ALBA	WHITE OAK	7		
NYSSA SYLVATICA	BLACKGUM	7		
TOTAL TREES:		65		
TOTAL SEEDLING EQUIVALENT:		325		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	4		
SPIGEBUSH	SPIGEBUSH	3		
REDBUD	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		
SCRUB PINE	SCRUB PINE	8		
LOBLOLLY PINE	LOBLOLLY PINE	8		
TOTAL TREES:		28		
TOTAL SEEDLING EQUIVALENT:		104		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	3		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	3		
TOTAL SHRUBS:		11		
TOTAL SEEDLING EQUIVALENT:		11		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 4				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	69		
ACER RUBRUM	RED MAPLE	33		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	33		
FAGUS GRANDIFOLIA	AMERICAN BEECH	33		
QUERCUS PALUSTRIS	PIN OAK	33		
PRUNUS SEROTINA	BLACK CHERRY	33		
QUERCUS ALBA	WHITE OAK	33		
NYSSA SYLVATICA	BLACKGUM	33		
TOTAL TREES:		300		
TOTAL SEEDLING EQUIVALENT:		1500		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	30		
SPIGEBUSH	SPIGEBUSH	30		
REDBUD	REDBUD	30		
TOTAL TREES:		90		
TOTAL SEEDLING EQUIVALENT:		270		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	24		
ILEX OPACA (MALE)	AMERICAN HOLLY	24		
SCRUB PINE	SCRUB PINE	37		
LOBLOLLY PINE	LOBLOLLY PINE	37		
TOTAL TREES:		110		
TOTAL SEEDLING EQUIVALENT:		440		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	15		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	15		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	15		
TOTAL SHRUBS:		60		
TOTAL SEEDLING EQUIVALENT:		60		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 5				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	72		
ACER RUBRUM	RED MAPLE	36		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	72		
FAGUS GRANDIFOLIA	AMERICAN BEECH	72		
DIOSPYROS VIRGINIANA	AMERICAN PERSIMMON	72		
PRUNUS SEROTINA	BLACK CHERRY	72		
QUERCUS ALBA	SOUTHERN RED OAK	72		
QUERCUS VELUTINA	BLACK OAK	72		
TOTAL TREES:		496		
TOTAL SEEDLING EQUIVALENT:		2480		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ULMUS X. HOMESTEAD	HOMESTEAD ELM	64		
CARPINUS CAROLINIANA	IRONWOOD	64		
AMERICAN BEECH	AMERICAN BEECH	64		
TOTAL TREES:		192		
TOTAL SEEDLING EQUIVALENT:		576		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	76		
ILEX OPACA (MALE)	AMERICAN HOLLY	36		
SCRUB PINE	SCRUB PINE	70		
LOBLOLLY PINE	LOBLOLLY PINE	70		
TOTAL TREES:		184		
TOTAL SEEDLING EQUIVALENT:		736		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	36		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	36		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	36		
TOTAL SHRUBS:		108		
TOTAL SEEDLING EQUIVALENT:		108		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 6				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	7		
ACER RUBRUM	RED MAPLE	7		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	7		
FAGUS GRANDIFOLIA	AMERICAN BEECH	7		
QUERCUS ALBA	WHITE OAK	7		
NYSSA SYLVATICA	BLACKGUM	7		
TOTAL TREES:		42		
TOTAL SEEDLING EQUIVALENT:		200		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	35		
PRUNUS SEROTINA	BLACK CHERRY	35		
CORNUS FLORIDA	DOGWOOD	35		
MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	35		
TOTAL TREES:		105		
TOTAL SEEDLING EQUIVALENT:		315		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	53		
ILEX OPACA (MALE)	AMERICAN HOLLY	53		
SCRUB PINE	SCRUB PINE	61		
LOBLOLLY PINE	LOBLOLLY PINE	61		
TOTAL TREES:		328		
TOTAL SEEDLING EQUIVALENT:		1292		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	17		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	17		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	18		
TOTAL SHRUBS:		52		
TOTAL SEEDLING EQUIVALENT:		52		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 7				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
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:		61		
TOTAL SEEDLING EQUIVALENT:		295		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	14		
PRUNUS SEROTINA	BLACK CHERRY	14		
CORNUS FLORIDA	DOGWOOD	14		
TOTAL TREES:		42		
TOTAL SEEDLING EQUIVALENT:		168		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (FEMALE)	AMERICAN HOLLY	5		
ILEX OPACA (MALE)	AMERICAN HOLLY	5		
TOTAL TREES:		10		
TOTAL SEEDLING EQUIVALENT:		40		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
VIBURNUM DENTATUM	SOUTHERN ARROWWOOD	3		
VACCINIUM CORYMBOSUM	HOBBLUSH BLUEBERRY	3		
HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	3		
TOTAL SHRUBS:		11		
TOTAL SEEDLING EQUIVALENT:		11		

AFFORESTATION/REFORESTATION PLANT LIST FOR AREA 8				
4.1 ACRES X 1000-100 SEEDLINGS OR EQUIVALENT REQUIRED				
DECIDUOUS SHADE TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
LIQUIDAMBAR STYRACIFLUA	SWEETGUM	48		
ACER RUBRUM	RED MAPLE	48		
LIRIODENDRON TULIPIFERA	TULIP POPLAR	48		
FAGUS GRANDIFOLIA	AMERICAN BEECH	48		
QUERCUS PALUSTRIS	PIN OAK	48		
PRUNUS SEROTINA	BLACK CHERRY	48		
QUERCUS ALBA	WHITE OAK	48		
NYSSA SYLVATICA	BLACKGUM	48		
TOTAL TREES:		384		
TOTAL SEEDLING EQUIVALENT:		1920		
DECIDUOUS UNDERSTORY TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
AMELANCHIER LAEVIS	ALLEGHENY SERVICEBERRY	40		
SPICEBUSH	SPICEBUSH	40		
CERCIS CANADENSIS	REDBUD	40		
TOTAL TREES:		120		
TOTAL SEEDLING EQUIVALENT:		360		
EVERGREEN TREES				
SCIENTIFIC NAME	COMMON NAME	QTY		
ILEX OPACA (PEZALE)	AMERICAN HOLLY	48		
ILEX OPACA (REAL)	AMERICAN HOLLY	48		
PINUS VIRGINIANA	SCURV PIN	74		
PINUS TAEDA	LOBLODY PINE	74		
TOTAL TREES:		224		
TOTAL SEEDLING EQUIVALENT:		680		
SHRUBS				
SCIENTIFIC NAME	COMMON NAME	QTY		
HYDRANGEA LIGULICOLPA	CARLEYS HYDRANGEA	18		
VIBURNUM FENTONIA	AMERICAN WAXWOOD	18		
VIBURNUM CORYMBOSUM	HIGHBUSH BLUEBERRY	18		
VIBURNUM THICUM	AMERICAN SERVICEBERRY VIBURNUM	18		
TOTAL SHRUBS:		72		
TOTAL SEEDLING EQUIVALENT:		216		