MCPB

Consent Agenda

Date: 3-24-16

Brookside Gardens Greenhouse, Amended Forest Conservation Plan, PP1995001

Amy Lindsey, Planner Coordinator, Area 2 Division, amy.lindsey@montgomeryplanning.org, 301.495.2189

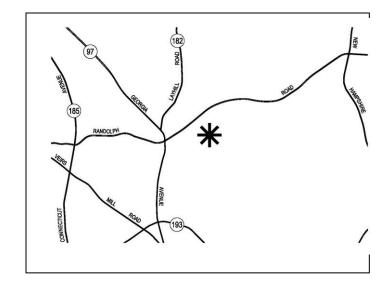
[[A] Khalid Afzal, Supervisor, Area 2 Division, khalid.afzal@montgomeryplanning.org, 301.495.4650

Glenn Kreger, Chief, Area 2 Division, glenn.kreger@montgomeryplanning.org, 301.495.4653

Completed: 3/11/16

Description

- Request to Amend Final Forest Conservation Plan to allow the replacement of the existing greenhouse with a new greenhouse and associated infrastructure;
- 1800 Glenallan Avenue;
- 60 acres, R-90 Zone;
- 1989 Master Plan for the Communities of Kensington-Wheaton;
- Applicant: Montgomery County Department of Parks;
- Filing date: 9/3/2015.



Summary

- Staff recommends approval with conditions.
- The Final Forest Conservation Plan (FFCP) covers a portion of Wheaton Regional Park. Staff is working with the Department of Parks to develop a Forest Conservation Plan for the entire park, in conjunction with the ongoing Master Plan for Wheaton Regional Park.

Conditions

- 1. The Applicant must prepare a Forest Conservation Plan for the entire Wheaton Regional Park in conjunction with the Master Plan for Wheaton Regional Park, and compensate for the removal of 0.06 acres of forest associated with the proposed improvements.
- 2. The Applicant must mitigate for the removal of trees #34, 55" beech, and #46", 30" black gum, if field investigation determines it to be necessary to remove either or both of these trees.

 Mitigation must be at the rate of 1 caliper inch planted per 4" inch DBH lost, using a minimum 3" caliper native canopy tree.

Pursuant to Chapter 22A of the County Code, the Board's actions on Forest Conservation Plans are regulatory and binding.

OVERVIEW

The 60-acre Property is located within Wheaton Regional Park and developed with Brookside Gardens Visitors Center, Brookside Gardens Conservatory, **Brookside Gardens Plant** Propagation Area, maintenance and storage area, the Gude Gardens stormwater management facilities, and numerous trails. The Property is delineated and enclosed by a deer fence. The Planning Board approved the Brookside Gardens Master Plan on March 3, 2005 and the Facility Plan for **Brookside Gardens Parking and** Access Improvements on February 25, 2010. The associated Preliminary Forest Conservation Plan was approved



on June 16, 2011. An amended Final Forest Conservation Plan (FFCP) for a refinement to the planned parking renovation and entrance and Americans with Disabilities Act (ADA) compliant access and stormwater management was approved on December 5, 2013 (Attachment 1).

ANALYSIS

Forest Conservation

This Property is subject to the Montgomery County Forest Conservation Law (Chapter 22A of the County Code). The submitted FFCP amendment (Attachment 2) allows for replacing the existing greenhouse with a new greenhouse in its place and construction of associated facilities. It will require the clearing of 0.06 acres of forest that was previously shown as retained. While the Property will still have 7.2 acres of forest retention above the break-even point (a level of forest retention that does not require the need for reforestation), the Planning Board has consistently required mitigation plantings for the loss of forest

shown as retained or within easements. In order to be consistent with this policy, the Applicant will either need to plant 0.06 acres of forest within the 60.0-acre area covered by the Amended FFCP, or plant a minimum of 0.12 acres of forest off-site.

With the 2013 FFCP amendment, Staff recommended a more comprehensive approach to Forest Conservation Plans on Regional Park facilities. Staff members from the Department of Parks and the Planning Department are working on a methodology for developing an FCP covering an entire regional park, thus creating an appropriate balance between the developed and the preserved areas. The Department of Parks has begun to update the Wheaton Regional Park Master Plan, and this park will be used as a pilot project for this approach to forest conservation in regional parks. Staff will coordinate the Forest Conservation Plan with the Master Plan currently underway for Planning Board review and approval. Therefore, Staff is recommending that the Planning Board not require additional forest planting/protection at this time, but allow compensation to be shown on the FCP for the entire Regional Park. The Applicant will be required to plant trees as mitigation for removing variance trees as discussed later in this report.

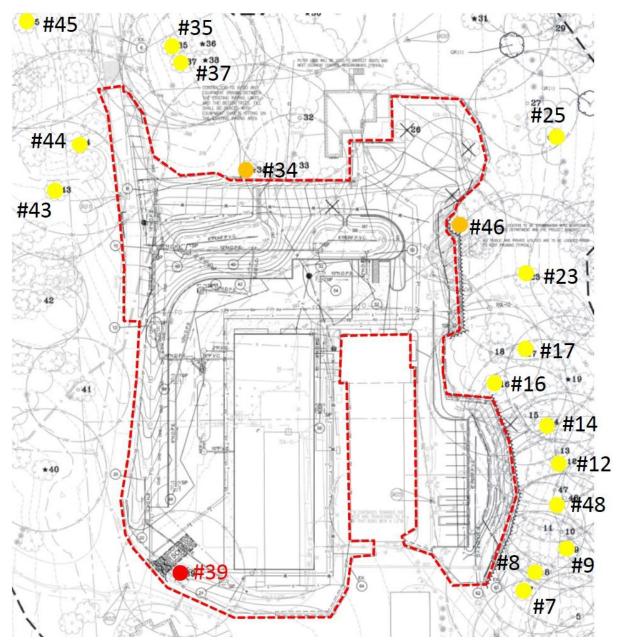
Forest Conservation Variance

Section 22A-12(b) (3) of the County Code provides criteria that identify certain individual trees as high priority for retention and protection. The law requires a variance for any impact, including removal or disturbance within the tree's critical root zone (CRZ), to trees that are: 30 inches or greater Diameter at Breast Height (DBH); part of a historic site or designated with a historic structure; designated as national, State, or County champion trees; at least 75 percent of the diameter of the current State champion tree of that species; or trees, shrubs and plants that are designated as Federal or State rare, threatened, or endangered species. An applicant for a variance must provide certain written information in support of the required findings in accordance with Section 22A-21 of the County Forest Conservation Law.

The Applicant submitted a variance request for the increased impacts to high priority trees on September 3, 2015, and a revised variance request on February 12, 2016, to remove one tree, and impact, but retain, 17 trees that are considered high priority for retention under Section 22A-12 (b) (3) of the County Forest Conservation Law (Attachment 3). Two of the trees proposed for retention, #34, 55" beech, and #46, 30" black gum, may have significant impacts. The Applicant has researched the locations of major roots and believes that these trees can be retained. Staff agrees that these trees can probably be retained but has included a condition of approval that requires mitigation at the rate of 1 caliper inch planted per 4" inch DBH lost, using a minimum 3" caliper native canopy tree if either of these trees must be removed on further inspection.

Unwarranted Hardship for Variance Tree Impacts - Per Section 22A-21, a variance may only be granted if the Planning Board finds that leaving the requested trees in an undisturbed state would result in unwarranted hardship. In this case, the unwarranted hardship is caused by the need for the demolition of an existing greenhouse and construction of a new greenhouse. The new greenhouse will be built on the footprint of the old greenhouse, to minimize impacts. However, the new greenhouse will require associated site development and stormwater management. This development cannot be implemented without impacting these trees.

Variance Tree Locations



Variance Tree Tables

Removals

ID	Species	Size	Condition	Notes
39	Red maple	33"	Good	Grading and paving.

Impacts

ID	Species	Size	Condition	Notes			
7	Tulip poplar	41"	Good	Stormwater management facility.			
8	Tulip poplar	32"	Good	Stormwater management facility.			
9	Tulip poplar	40"	Good	Minor grading.			

ID	Species	Size	Condition	Notes					
12	Tulip poplar	36"	Good	Grading.					
14	Tulip poplar	43"	Good	Stormwater management facility.					
16	Tulip poplar	37"	Good	Stormwater management facility.					
17	Tulip poplar	37"	Good	Minor grading and paving.					
23	Tulip poplar	ooplar 43" Good		Grading.					
25	Tulip poplar	46"	Poor	Grading.					
34	Beech	55"	Good	Paving.					
35	Tulip poplar	43"	Good	Paving.					
37	Tulip poplar	33"	Good	Removal of paving.					
43	Black gum	36"	Good	Minor grading.					
44	Tulip poplar	48"	Good	Grading and paving.					
45	Tulip poplar	55"	Good	Paving.					
46	Black gum	30"	Good	Grading.					
48	Tulip poplar	36"	Good	Grading.					

Variance Findings - Based on the review of the variance request and the proposed Amended Forest Conservation Plan, staff makes the following findings:

1. Granting the variance will not confer on the applicant a special privilege that would be denied to other applicants.

The disturbance to the specified trees is a result of the need to demolish the existing greenhouse and build a much needed new one. Granting this variance request is not a special privilege that would be denied to other applicants.

2. The need for the variance is not based on conditions or circumstances which are the result of the actions by the Applicant.

The requested variance is not based on conditions or circumstances which are the result of actions by the Applicant. The disturbance of the specified trees is minimized because the new greenhouse will be built on the footprint of the old greenhouse.

3. The need for the variance is not based on a condition relating to land or building use, either permitted or non-conforming, on a neighboring property.

The requested variance is a result of the greenhouse demolition and construction, and not a result of land or building use on a neighboring property.

4. Granting the variance will not violate State water quality standards or cause measurable degradation in water quality.

The proposed project should improve water quality by adding modern stormwater management facilities. Additionally, the new trees proposed as mitigation for the loss of specimen trees will enhance the form and function of the existing tree canopy. Trees protect water quality by reducing runoff through rainfall interception and water uptake. Additionally, trees provide

shade for impervious areas and improve soil texture, which also results in improved water quality.

Mitigation for Trees Subject to the Variance Provisions – The proposed removal of one tree will be mitigated by additional plantings. Generally, mitigation is not recommended for trees impacted but retained. Mitigation planting is calculated at the rate of 1 caliper inch planted per 4" inch DBH lost, using a minimum 3" caliper native canopy tree. Using this ratio, the Applicant will be required to plant three trees.

County Arborist's Recommendation on the Variance - In accordance with Montgomery County Code Section 22A-21(c), the Planning Department is required to refer a copy of the variance request to the County Arborist in the Montgomery County Department of Environmental Protection for a recommendation prior to acting on the request. Staff forwarded the request to the County Arborist on 2/18/2016. A letter from the County Arborist has not been received prior to staff report posting.

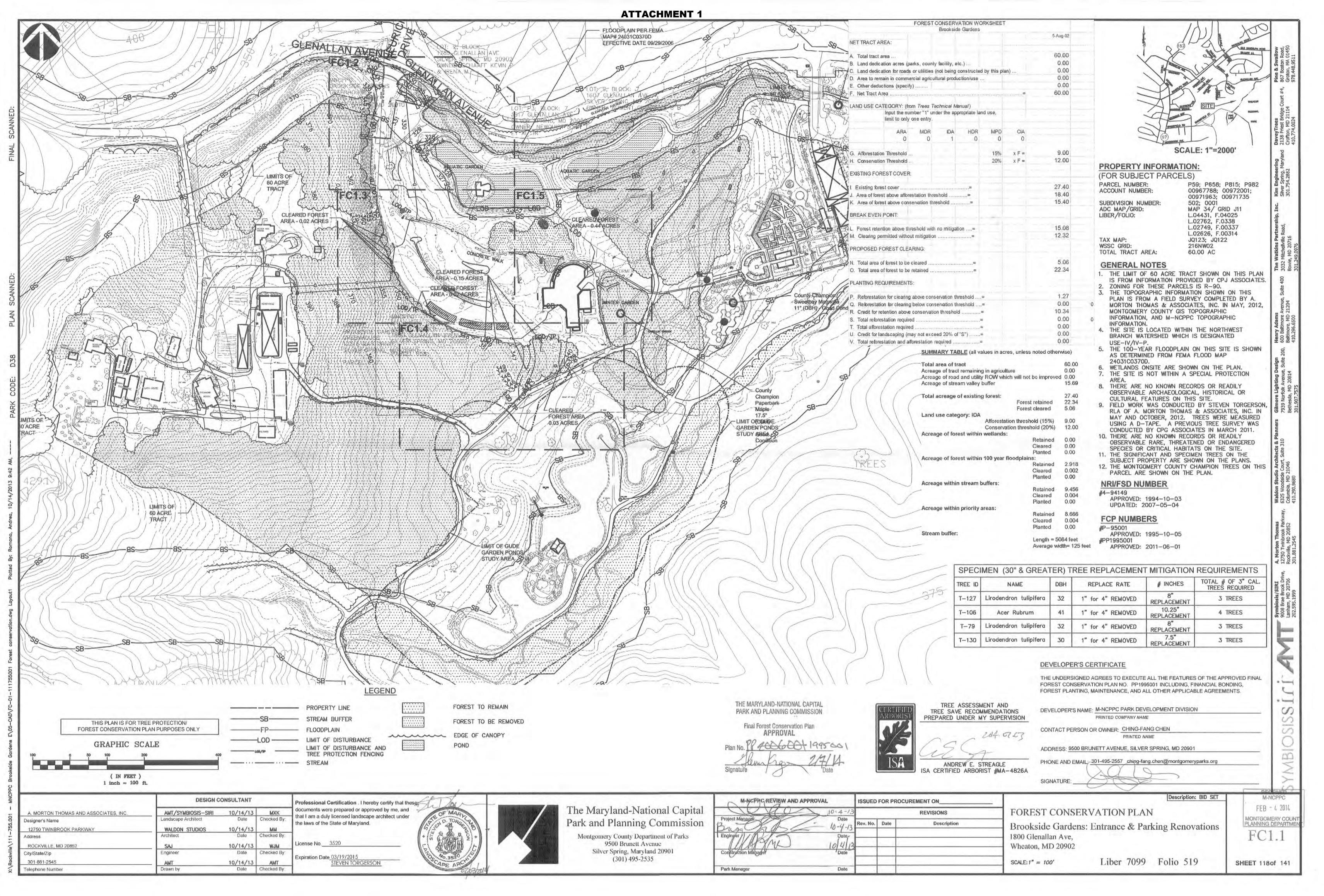
Variance Recommendation – Staff recommends the variance be granted.

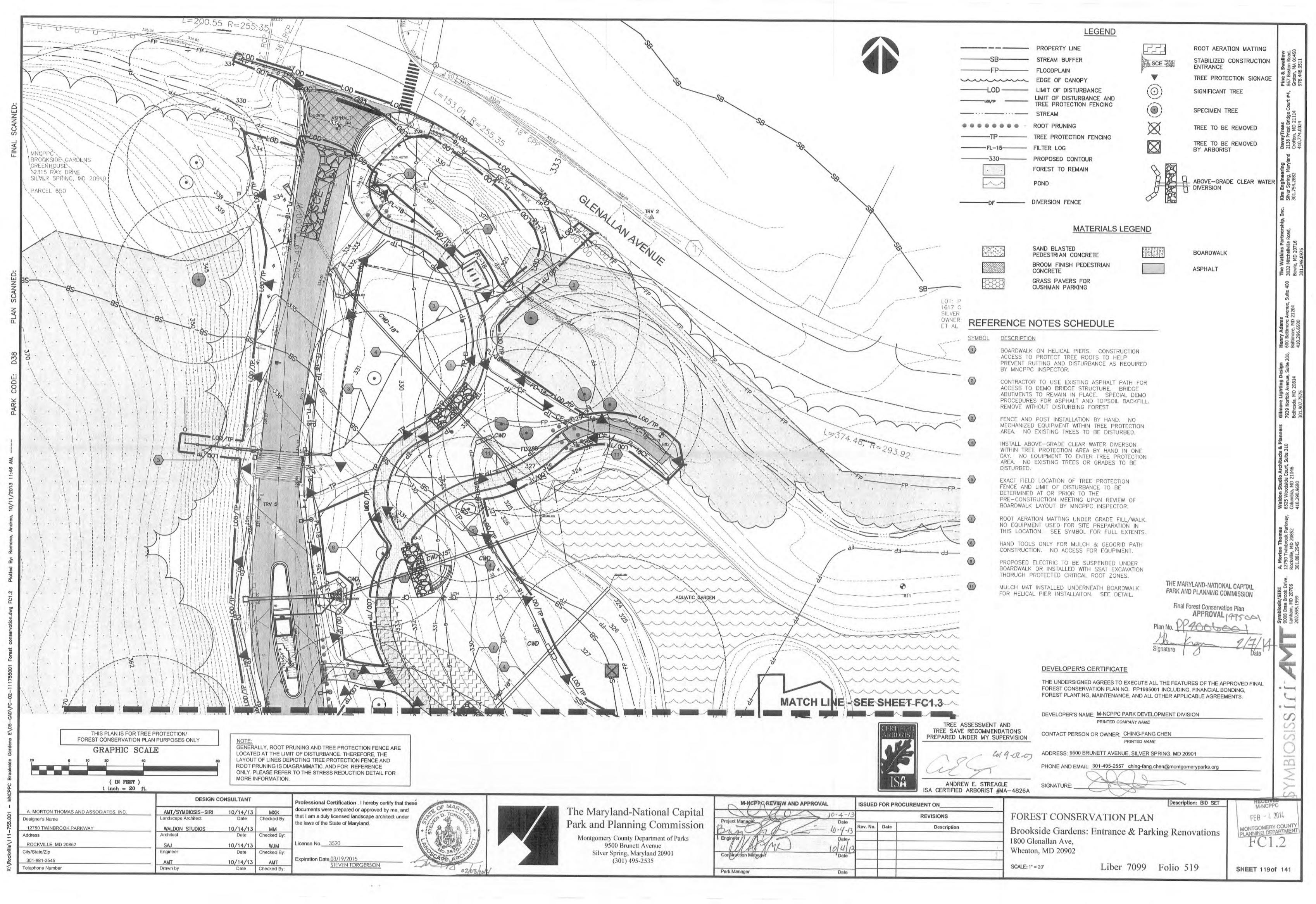
Conclusion

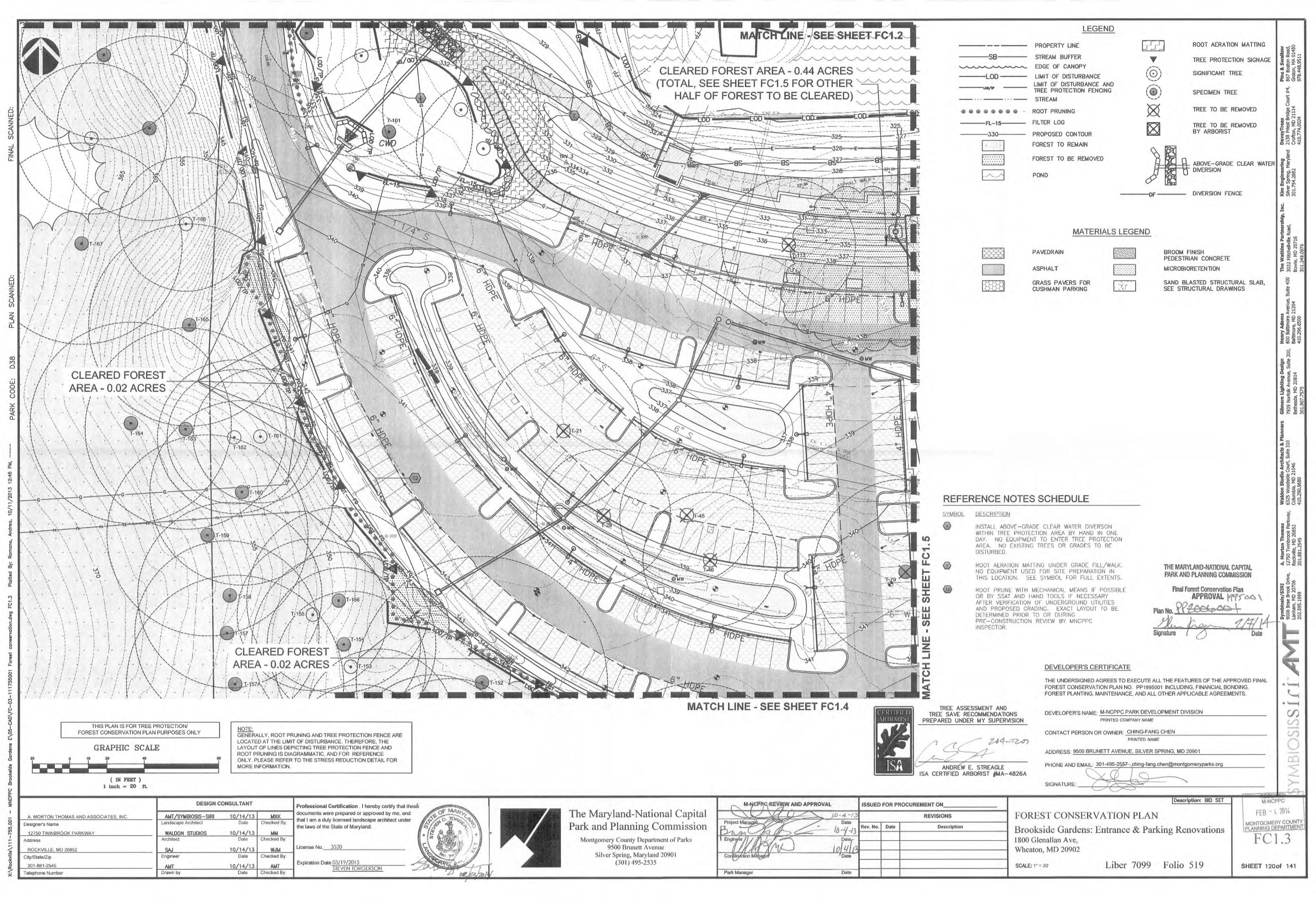
Staff recommends that the Planning Board approve the Amended Final Forest Conservation Plan with the condition that the Applicant submits a comprehensive Forest Conservation Plan covering the entire Wheaton Regional Park concurrently with the Wheaton Regional Park Master Plan update. The variance approval is assumed into the Planning Board's approval of the Final Forest Conservation Plan.

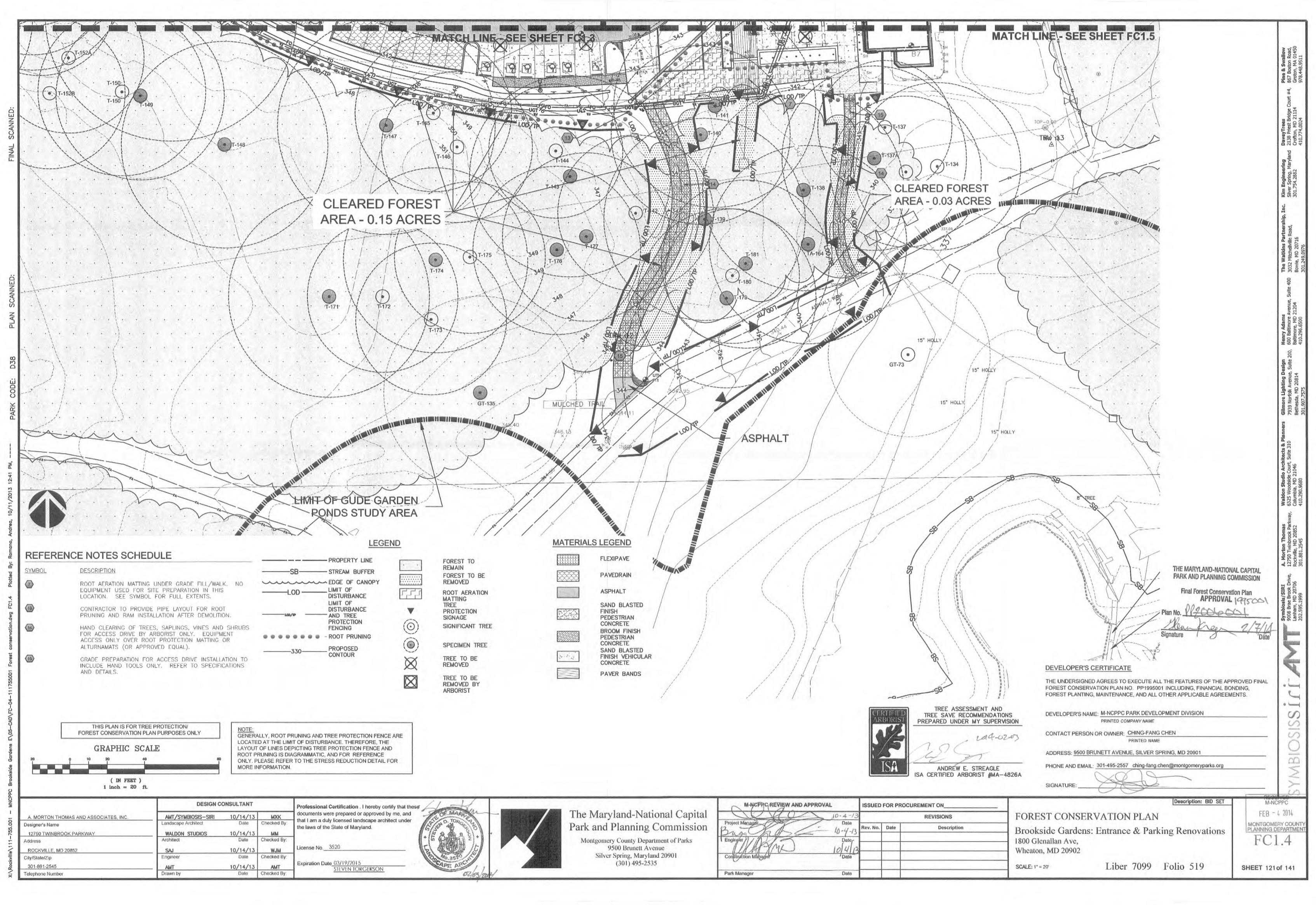
ATTACHMENTS:

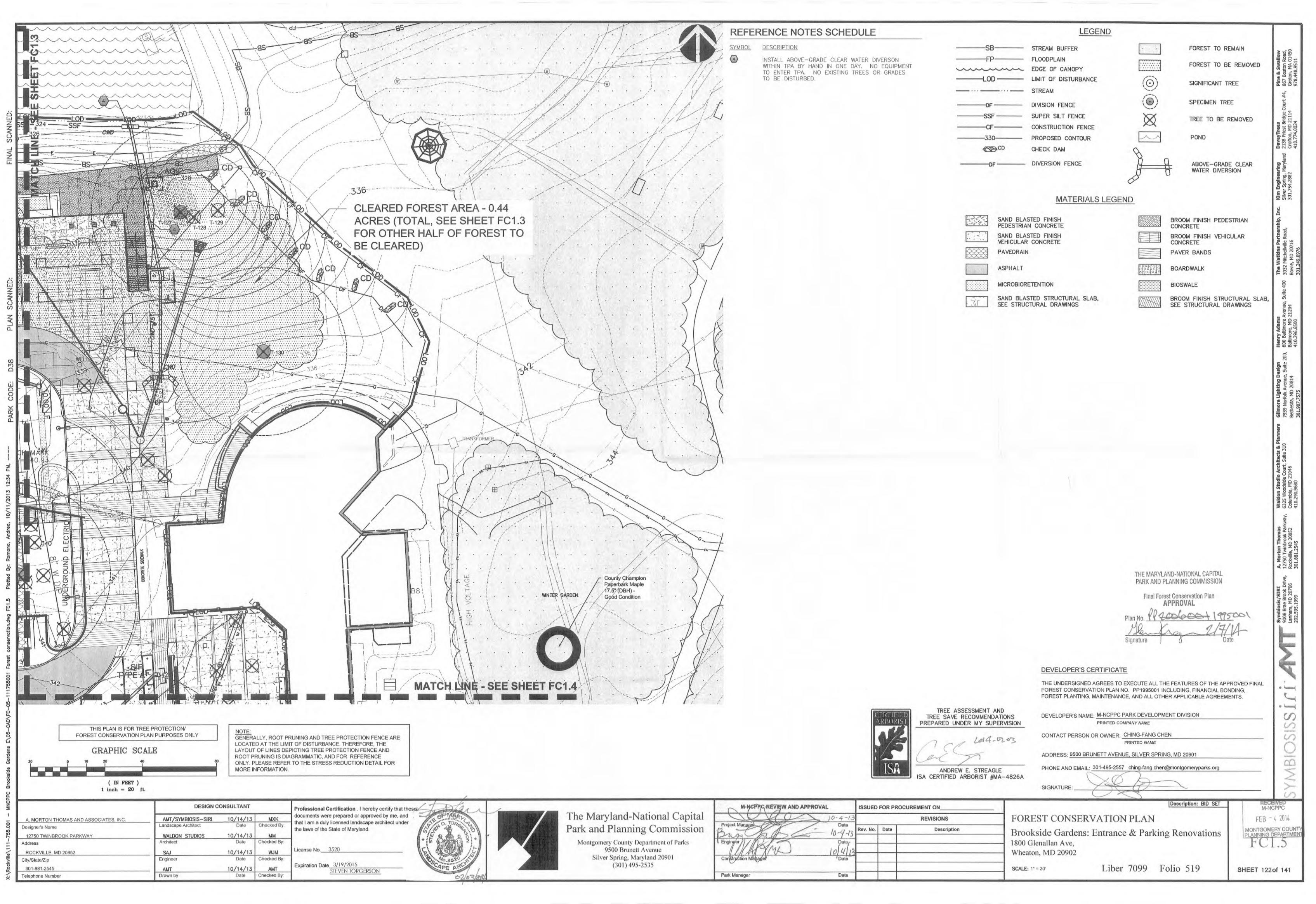
- 1. 2013 Amended Final Forest Conservation Plan
- 2. Proposed Amended Final Forest Conservation Plan
- 3. Variance Request

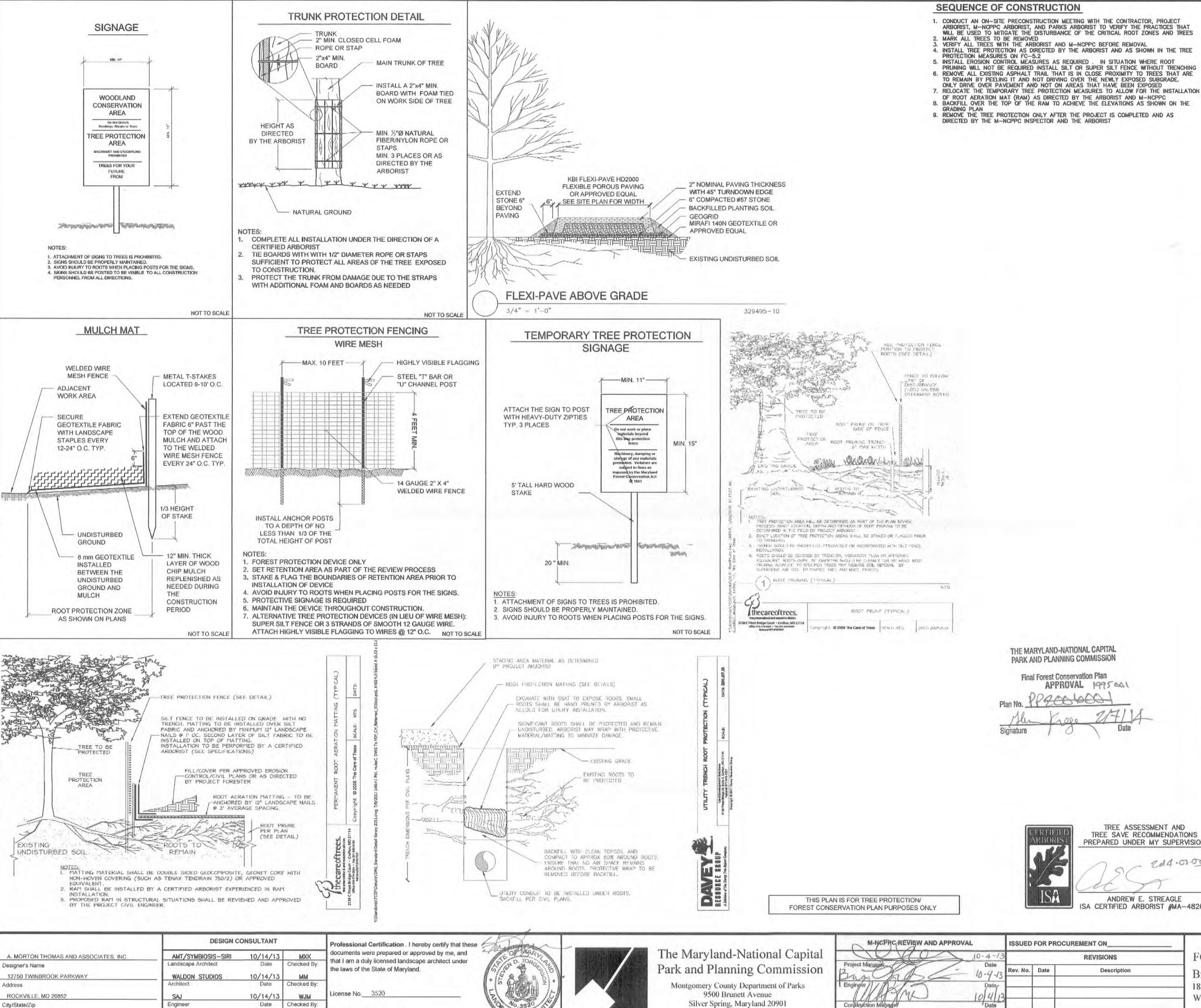












Expiration Date 03/19/2015

Checked By

Date

STEVEN TORGERSON

301-881-2545

Telephone Number

Drawn by

THE MARYLAND-NATIONAL CAPITAL

Final Forest Conservation Plan

TREE ASSESSMENT AND

TREE SAVE RECOMMENDATIONS PREPARED UNDER MY SUPERVISION

ANDREW E. STREAGLE

ISA CERTIFIED ARBORIST #MA-4826A

PARK AND PLANNING COMMISSION

GENERALLY, ROOT PRUNING AND TREE PROTECTION FENCE ARE LOCATED AT THE LIMIT OF DISTURBANCE. THEREFORE, THE LAYOUT OF LINES DEPICTING TREE PROTECTION FENCE AND ROOT PRUNING IS DIAGRAMMATIC, AND FOR REFERENCE ONLY. PLEASE REFER TO THE STRESS REDUCTION DETAIL FOR

PRINTED COMPANY NAME

PHONE AND EMAIL: 301-495-2557 ching-fang.chen@montgomeryparks.org

ISSUED FOR PROCUREMENT ON REVISIONS Rev. No. Date Description

FOREST CONSERVATION DETAILS Brookside Gardens: Entrance & Parking Renovations

Wheaton, MD 20902

Liber 7099 Folio 519

SHEET 123 of 141

FEB - 4 2014

THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF THE APPROVED FINAL

ADDRESS: 9500 BRUNETT AVENUE, SILVER SPRING, MD 20901

(301) 495-2535

Park Manager

Construction Mahage

Date

2. NO CLEARING OR GRADING SHALL BEGIN BEFORE STRESS-REDUCTION MEASURES HAVE BEEN IMPLEMENTED. APPROPRIATE MEASURES MAY INCLUDE, BUT ARE NOT LIMITED TO:

THIS PRE-CONSTRUCTION MEETING.

B. CROWN REDUCTION OR PRUNING

DEVELOPER'S REPRESENTATIVE

. WATERING

D. FERTILIZING VERTICAL MULCHING . ROOT AERATION MATTING

MEASURES NOT SPECIFIED ON THE FOREST CONSERVATION PLAN MAY BE REQUIRED AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR IN COORDINATION WITH THE ARBORIST

MONTGOMERY COUNTY STANDARD FOREST CONSERVATION NOTES

PRE-CONSTRUCTION;

1. AN ON-SITE PRE-CONSTRUCTION MEETING IS REQUIRED AFTER THE LIMITS OF DISTURBANCE.

INSPECTION STAFF BEFORE CONSTRUCTION TO VERIFY THE LIMITS OF DISTURBANCE AND DISCUSS TREE PROTECTION AND TREE CARE MEASURES. THE

CONSTRUCTION SUPERINTENDENT, ISA CERTIFIED ARBORIST OR MARYLAND-LICENSED TREE EXPERT

THAT WILL IMPLEMENT THE TREE PROTECTION MEASURES, FOREST CONSERVATION INSPECTOR, AND

DEPARTMENT OF PERMITTING SERVICES (DPS) SEDIMENT CONTROL INSPECTOR SHOULD ATTEND

HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS. THE PROPERTY OWNER SHOULD CONTACT THE MONTGOMERY COUNTY PLANNING DEPARTMENT

3. A MARYLAND-LICENSED TREE EXPERT OR AN INTERNATIONAL SOCIETY OF ARBORICULTURE-CERTIFIED ARBORIST MUST PERFORM ALL STRESS REDUCTION MEASURES. DOCUMENTATION OF STRESS REDUCTION MEASURES MUST BE EITHER OBSERVED BY THE FOREST CONSERVATION INSPECTOR OR SENT TO THE INSPECTOR AT 8787 GEORGIA AVENUE, SILVER SPRING, MD 20910. THE FOREST CONSERVATION INSPECTOR WILL DETERMINE THE EXACT METHOD TO CONVEY THE STRESS REDUCTIONS MEASURES DURING THE PRE-CONSTRUCTION MEETING.

4. TEMPORARY TREE PROTECTION DEVICES SHALL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND PRIOR TO ANY CONSTRUCTION ACTIVITIES. TREE PROTECTION FENCING LOCATIONS SHOULD BE STAKED PRIOR TO THE PRE-CONSTRUCTION MEETING. THE FOREST CONSERVATION INSPECTOR, IN COORDINATION WITH THE DPS SEDIMENT CONTROL INSPECTOR, MAY MAKE FIELD ADJUSTMENTS TO INCREASE THE SURVIVABILITY OF TREES AND FOREST SHOWN AS SAVED ON THE APPROVED PLAN. TEMPORARY TREE PROTECT DEVICES MAY

A. CHAIN LINK FENCE (FOUR FEET HIGH)

B. SUPER SILT FENCE WITH WIRE STRUNG BETWEEN SUPPORT POLES (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING C. 14 GAUGE 2 INCH X 4 INCH WELDED WRE FENCING SUPPORTED BY STEEL T-BAR POSTS (MINIMUM 4 FEET HIGH) WITH HIGH VISIBILITY FLAGGING.

5. TEMPORARY PROTECTION DEVICES SHALL BE MAINTAINED AND INSTALLED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION PROJECT AND MUST NOT BE ALTERED WITHOUT PRIOR APPROVAL FROM THE FOREST CONSERVATION INSPECTOR. NO EQUIPMENT, TRUCKS, MATERIALS, OR DEBRIS MAY BE STORED WITHIN THE TREE PROTECTION FENCE AREAS DURING THE ENTIRE CONSTRUCTION PROJECT. NO VEHICLE OR EQUIPMENT ACCESS TO THE FENCED AREA WILL BE PERMITTED. TREE PROTECTION SHALL NOT BE REMOVED WITHOUT PRIOR APPROVAL OF FOREST CONSERVATION INSPECTOR.

6. FOREST RETENTION AREA SIGNS SHALL BE INSTALLED AS REQUIRED BY THE FOREST CONSERVATION INSPECTOR, OR AS SHOWN ON THE APPROVED PLAN.

7. LONG-TERM PROTECTION DEVICES WILL BE INSTALLED PER THE FOREST CONSERVATION PLAN/TREE SAVE PLAN AND ATTACHED DETAILS. INSTALLATION WILL OCCUR AT THE APPROPRIATE TIME DURING THE CONSTRUCTION PROJECT. REFER TO THE PLAN DRAWING FOR LONG-TERM PROTECTION MEASURES TO BE INSTALLED.

DURING CONSTRUCTION:
8. PERIODIC INSPECTIONS BY THE FOREST CONSERVATION INSPECTOR WILL OCCUR DURING THE CONSTRUCTION PROJECT. CORRECTIONS AND REPAIRS TO ALL TREE PROTECTION DEVICES, AS DETERMINED BY THE FOREST CONSERVATION INSPECTOR, MUST BE MADE WITHIN THE TIMEFRAME ESTABLISHED BY THE INSPECTOR.

9. AFTER CONSTRUCTION IS COMPLETED, AN INSPECTION SHALL BE REQUESTED. CORRECTIVE MEASURES MAY INCLUDE:

A. REMOVAL AND REPLACEMENT OF DEAD AND DYING TREES B. PRUNING OF DEAD OR DECLINING LIMBS

. SOIL AERATION

D. FERTILIZATION . WATERING

WOUND REPAIR G. CLEAN UP OF RETENTION AREAS

10. AFTER INSPECTION AND COMPLETION OF CORRECTIVE MEASURES HAVE BEEN UNDERTAKEN, ALL TEMPORARY PROTECTION DEVICES SHALL BE REMOVED FROM THE SITE. REMOVAL OF TREE PROTECTION DEVICES THAT ALSO OPERATE FOR EROSION AND SEDIMENT CONTROL MUST BE COORDINATED WITH BOTH THE DEPARTMENT OF PERMITTING SERVICES AND THE FOREST CONSERVATION INSPECTOR. NO ADDITIONAL GRADING, SODDING, OR BURIAL MAY TAKE PLACE AFTER THE TREE PROTECTION FENCING IS REMOVED.

ALL FIELD INSPECTIONS MUST BE REQUESTED BY THE APPLICANT, INSPECTIONS MUST BE CONDUCTED AS FOLLOWS:

TREE SAVE PLANS AND FOREST CONSERVATION PLANS WITHOUT PLANTING REQUIREMENTS 1. AFTER THE LIMITS OF DISTURBANCE HAVE BEEN STAKED AND FLAGGED, BUT BEFORE ANY CLEARING OR GRADING BEGINS

2. AFTER NECESSARY STRESS REDUCTION MEASURES HAVE BEEN COMPLETED AND PROTECTION MEASURES HAVE BEEN INSTALLED, BUT BEFORE ANY CLEARING AND GRADING BEGIN.

AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITIES, BUT BEFORE REMOVAL OF TREE PROTECTION FENCING, TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISION OF THE

ADDITIONAL REQUIREMENTS FOR PLANS WITH PLANTING REQUIREMENTS

4. BEFORE THE START OF ANY REQUIRED REFORESTATION AND AFFORESTATION PLANTING

5. AFTER THE REQUIRED REFORESTATION AND AFFORESTATION PLANTING HAS BEEN COMPLETED TO VERIFY THAT THE PLANTING IS ACCEPTABLE AND PRIOR TO THE START THE MAINTENANCE

6. AT THE END OF THE MAINTENANCE PERIOD TO DETERMINE THE LEVEL OF COMPLIANCE WITH THE PROVISIONS OF THE PLANTING PLAN, AND IF APPROPRIATE, RELEASE OF THE PERFORMANCE

1800 Glenallan Ave,

SCALE: NTS

MORE INFORMATION.

DEVELOPER'S CERTIFICATE

FOREST CONSERVATION PLAN NO. PP1995001 INCLUDING, FINANCIAL BONDING, FOREST PLANTING, MAINTENANCE, AND ALL OTHER APPLICABLE AGREEMENTS.

DEVELOPER'S NAME: M-NCPPC PARK DEVELOPMENT DIVISION

CONTACT PERSON OR OWNER: CHING-FANG CHEN

SIGNATURE

MONTGOMERY COUNT

	DBH			%			CRZ							Rec	omn	nend	ded P	rese	rvati	on M	east	ures						Townson.
Tree #	(Diameter at 4.5 feet above grede)	Common Name	Botanical Name	Condition Rating 9	Condition Rating	enop FT)	Ortical Root Zone Radius in Ft (15 ft radius/n DBH)	Priority (1-4)	Removal by Sile Work Contractor	Removal By Arborist	Rost Prure Mechanical	Protection	Wood Chip Mulch	Year 1 Soil Care	Vsar 2 Soil Cars	Year 3-5 Soil Care	Soi Restoration/Aeration	Tree Growth Regulator	Supplemental Watering	Temp Root Protection Matt	Root Aeration Matting	Construction	Support Cable	Canapy Prune	Trunk Protection	Coordination Notes	Additional Site Assessment Notes	Condition Notes
T-165	36	Tulip Poplar	Liriodendron tulipifera Liriodendron	72	Good	0	54	0			x	X														Low disturbance		Full Crown, Large DW (3"+), Hardware, Vines,
-166	24	Tulip Poplar	tulipifera Liriodendron	63	Fair	0	36	0			+	X				4			_		_					No Disturbance		Full Crown, Large DW (3"+),
-167	36	Tulip Poplar	tulipifera	63	Fair	0	54	0				X														No Disturbance		Full Crown, Large DW (3"+), Hardware,
-168	27	Tulip Poplar	Liriodendron tulipifera	63	Fair	0	41	0				X														No Disturbance		Full Crown, Large DW (3"+),
169	33	Tulip Poplar	Liriodendron tulipifera	72	Good	0	50	0				x							1							Low disturbance		Full Crown, Stressed,
-170	30	Tulip Poplar	Liriodendron tulipifera	63	Fair	0	45	0				x										Г			di co	No Disturbance		Full Crown, Large DW (3"+), Broken Limbs,
171		Tulip Poplar	Liriodendron tulipifera		Fair	0						1				T						T				No Disturbance		Full Crown, Large DW (3"+),
-172		Tulip Poplar	Liriodendron tulipifera		Fair	0	44	0								1										No Disturbance		
-173		Tulip Poplar	Liriodendron tulipifera		Fair	0	41	0			t					1	\top	+			1							Full Crown, Trunk Decay, Full Crown, Large DW (3"+).
			Liriodendron			0		U			+	+						+		-	-	+			_	No Disturbance		Confined Roots
-1.74		Tulip Poplar	tulipifera Liriodendron		Fair	0	50	0		+	+	H			-	+	+	+	+	-	-	-		-	-	No Disturbance		Full Crown, Large DW (3"+)
175	27	Tulip Poplar	tulipifera Liriodendron	63	Fair	0	41	0		-	-	-			+	+	+	+	+	+	+	-			-	No Disturbance		Full Crown, Large DW (3"+)
176	30	Tulip Poplar	tulipifera	63	Fair	0	45	0		+	+	+			-	-	+	-	-	-	-	-	-	-	-	No Disturbance		Full Crown, Large DW (3"+)
177	30	Tulip Poplar	Liriodendron tulipifera	63	Fair	o	45	0																		Low disturbance for pervious pavement above grade.		Full Crown, Trunk Decay,
-179	32	Tulip Poplar	Liriodendron tulipifera	75	Good	0	48	0																		Low disturbance for pervious pavement above grade.		Full Crown,
-180	24	Tulip Poplar	Liriodendron tulipifera	75	Good	0	36	0																		Low disturbance for pervious payement above grade.		Full Crown,
-181	30	Tulip Poplar	Liriodendron tulipifera	56	Fair	0	45	0																		Low disturbance for pervious pavement above grade.		Full Crown, Trunk Decay,
182	27	Tulip Poplar	Liriodendron tulipifera	63	Fair	0	41	0																		Low disturbance for pervious pavement above grade.		Full Crown, Large DW (3"+),
A2	25	Red Oak	Quercus rubra	50	Fair	0	38	0				x														No Disturbance		Full Crown, Trunk Decay, Stressed,
A5	28	Pin Oak	Quercus palustris	75	Good	0	42	0				×														No Disturbance		Full Crown.
A10		Tulip Poplar	Liriodendron tulipifera		Good	0	45	0				x						1								Low disturbance		Full Crown, Stressed,
			Liriodendron																							Protect during boardwalk	1.34.5	
A31		Tulip Poplar	tulipifera Liriodendron		Good	.0	59	0			-	X			+	+	-	-		-	-				X	construction & bridge demo. Protect during boardwalk	On bank.	Full Crown,
137	36	Tulip Poplar	tulipifera Liriodendron	75	Good	0	54	0		-	-	X			+		-		+	-	-				Х	construction. Protect during boardwalk		Full Crown, Narrow Crown, Included Bar
439	33.3	Tulip Poplar	tulipifera Liriodendron	63	Fair	0	50	0		-	-	X			-		-	+	_	-	-				X	construction. Protect during boardwalk		Vines,
441	30	Tulip Poplar	tulipifera Liriodendron	75	Good	0	45	0			-	x			_	-		-	1		-				х	construction.		Full Crown
443	31.2	Tulip Poplar	tulipifera Taxodium	63	Fair	0	47	0				x			_						-				x	Protect during boardwalk construction.		Full Crown, Included Bark, Vines,
۸47		Bald Cypress	distichum		Good	0	39					x										118			x	Protect during boardwalk construction.	(· · · · · · · · · · · · · · · · · · ·	Narrow Crown,
451	24	Red Maple	Acer rubrum	63	Fair	0	36	0				X			-		-	-		-	-	-				Moderate disturbance for		Full Crown, Vines,
470	26	Red Maple	Acer rubrum Liriodendron	63	Fair	0	39	0	_	+	-	X			-	-	+	-	+	-	X				х	RAM under grade fill.		Full Crown, Suppressed,
A78	30	Tulip Poplar	tulipifera Liriodendron	75	Good	0	45	0		+	X	Х			1		+	+	-	-	-					Moderate disturbance for		Full Crown, Vines,
A79	The second second	Tulip Poplar	tulipifera		Good	0	41	0			×	X							1		X					RAM under grade fill:		Full Crown,
A106	41	Red Maple	Acer rubrum Liriodendron	72	Good	0	62	0		Х	-	-			-					-	1							Full Crown, Included Bark,
A164	36	Tulip Poplar	tulipifera Liriodendron	0	Fair	0	54	0		-								_	-	-	_							Split leader
T-73	29	Tulip Poplar	tulipifera Liriodendron	0	Good	0	44	0			-	-				-		-		-	-						No Disturbance	
T-135	3/5	Tulip Poplar	tulipifera	0	Good	0	52	0														1					No Disturbance	

THIS PLAN IS FOR TREE PROTECTION/

FOREST CONSERVATION PLAN PURPOSES ONLY

TREE ASSESSMENT AND

TREE SAVE RECOMMENDATIONS

PREPARED UNDER MY SUPERVISION

ANDREW E. STREAGLE

ISA CERTIFIED ARBORIST #MA-4826A

7014-9-03

THE MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION

Final Forest Conservation Plan APPROVAL 1995001

Description: BID SET

DEVELOPER'S CERTIFICATE

THE UNDERSIGNED AGREES TO EXECUTE ALL THE FEATURES OF THE APPROVED FINAL FOREST CONSERVATION PLAN NO. PP1995001 INCLUDING, FINANCIAL BONDING, FOREST PLANTING, MAINTENANCE, AND ALL OTHER APPLICABLE AGREEMENTS.

DEVELOPER'S NAME: M-NCPPC PARK DEVELOPMENT DIVISION

PRINTED COMPANY NAME

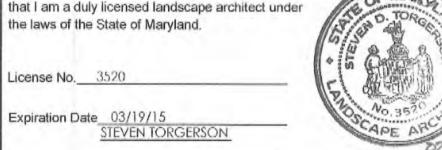
CONTACT PERSON OR OWNER: CHING-FANG CHEN PRINTED NAME

ADDRESS: 9500 BRUNETT AVENUE, SILVER SPRING, MD 20901

PHONE AND EMAIL: 301-495-2557 ching-fang chen@montgomeryparks.org SIGNATURE:

Liber 7099 Folio 519

	DESIGN CONSULTANT						
A. MORTON THOMAS AND ASSOCIATES, INC.	AMT/SYMBIOSIS-SIRI	10/14/13	MXK				
Designer's Name	Landscape Architect	Date	Checked By:				
12750 TWINBROOK PARKWAY	WALDON STUDIOS	10/14/13	MM				
Address	Architect	Date	Checked By:				
ROCKVILLE, MD 20852	SAJ	10/14/13	MLW				
City/State/Zip	Engineer	Date	Checked By:				
301-881-2545	AMT	10/14/13	AMT				
Telephone Number	Drawn by	Date	Checked By				





Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

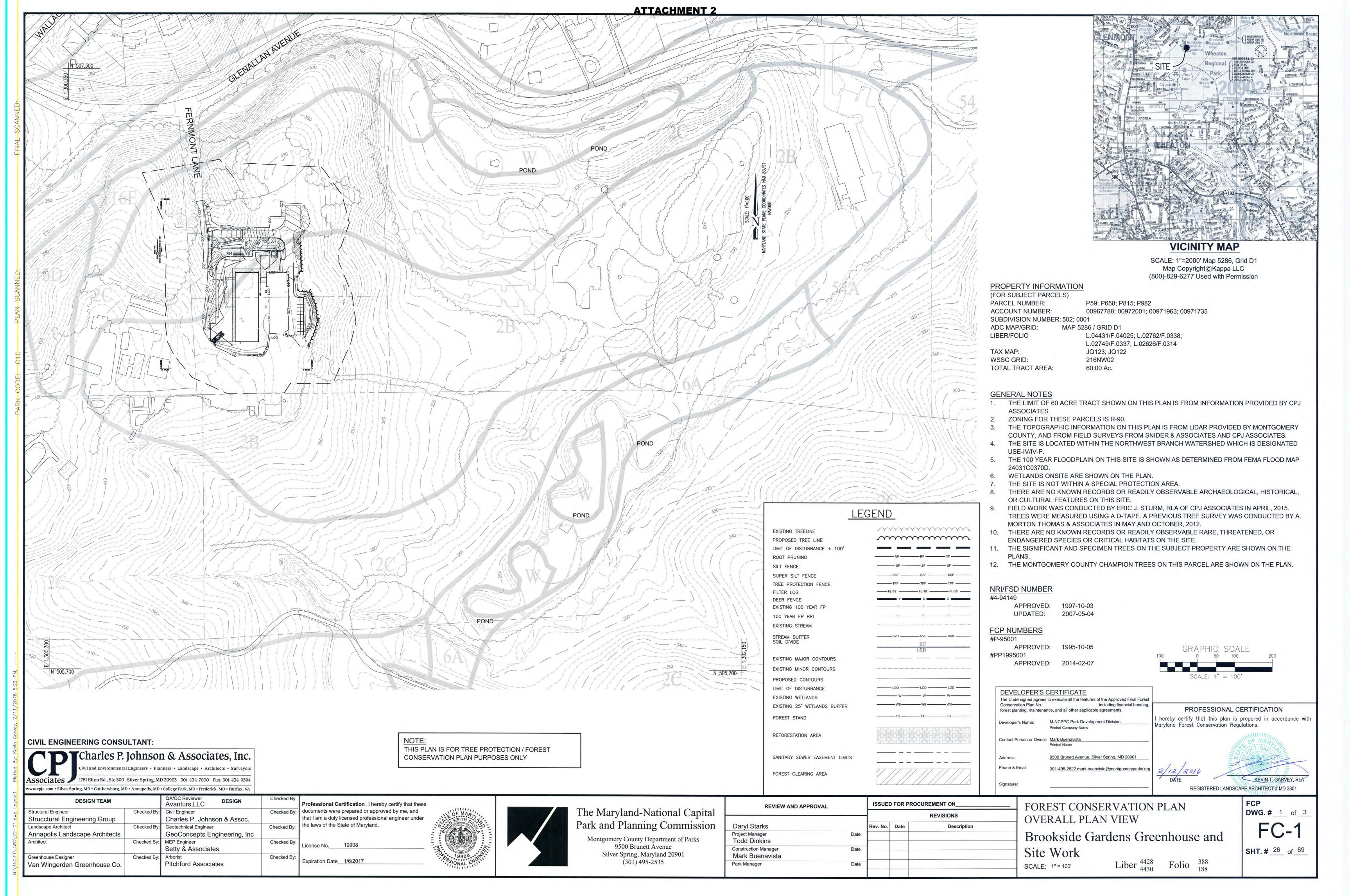
	M-NCPRC REVIEW AND APPROL	/AL	ISSUED	FOR PROCU	REMENT ON	_
		10-4-13			REVISIONS	FORES
E	Project Manager	10-4-13	Rev. No.	Date	Description	Brooksi
	Construction Mahage	10 4 13				——————————————————————————————————————
	Park Manager	Date				SCALE: NTS

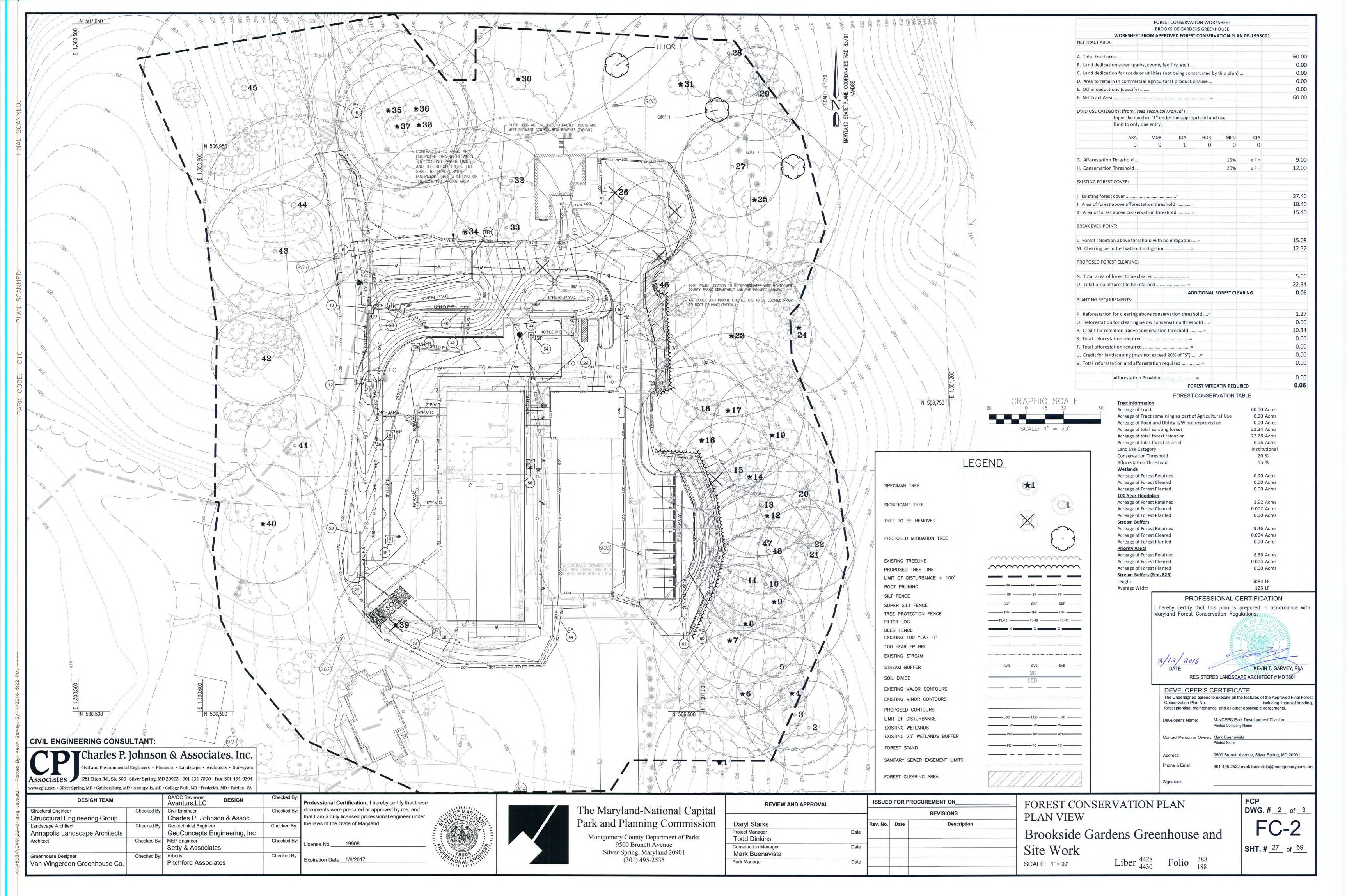
FOREST CONSERVATION DETAILS	
Brookside Gardens: Entrance & Parking R	tenovations
Wheaton, MD 20902	

M-NCPPC FEB - 4 2014 MONTGOMERY COUNTY PLANNING DEPARTMENT

Symbiosis/SIRI 9008 Brae Brook Driv Lanham, MD 20706 202,595,1999

SHEET 124of 141





Sequence of Events for Property Owners Required to Comply With Forest Conservation and/or Tree-Save Plans

Pre-Construction

- 1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged, but before any clearing or grading begins. The property owner should contact the Montgomery County Planning Department inspection staff before construction to verify the limits of disturbance and discuss tree protection and tree care measures. The developer's representative construction superintendent, ISA certified arborist or Maryland-licensed tree expert that will implement the tree protection measures, forest conservation inspector, and Department of Permitting Services (DPS) sediment control inspector should attend this pre-construction meeting.
- 2. No clearing or grading shall begin before stress-reduction measures have been implemented. Appropriate measures may include, but are not limited to:
- a. Root pruning
- b. Crown reduction or pruning
- c. Watering d. Fertilizing
- e. Vertical mulching f. Root aeration matting

Measures not specified on the forest conservation plan may be required as determined by the forest conservation inspector in coordination with the

- 3. A Maryland-licensed tree expert or an International Society of Arboriculturecertified arborist must perform all stress reduction measures. Documentation of stress reduction measures must be either observed by the forest conservation inspector or sent to the inspector at 8787 Georgia Avenue, Silver Spring, MD 20910. The forest conservation inspector will determine the exact method to convey the stress reductions measures during the pre-construction meeting.
- 4. Temporary tree protection devices shall be installed per the Forest Conservation Plan/Tree Save Plan and prior to any construction activities. Tree protection fencing locations should be staked prior to the pre-construction meeting. The forest conservation inspector, in coordination with the DPS sediment control inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan. Temporary tree protect devices
- a. Chain link fence (four feet high)

may include:

contractor for the duration of construction project and must not be aftered without prior approval from the forest conservation inspector. No equipment, trucks, materials, or debris may be stored within the tree protection fence areas during the entire construction project. No vehicle or equipment access to the fenced area will be permitted. Tree protection shall not be removed without prior approval of forest conservation inspector.

- 6. Forest retention area signs shall be installed as required by the forest conservation inspector, or as shown on the approved plan.
- 7. Long-term protection devices will be installed per the Forest Conservation Plan/Tree Save Plan and attached details. Installation will occur at the appropriate time during the construction project. Refer to the plan drawing for long-term protection measures to be installed.

During Construction

8. Periodic inspections by the forest conservation inspector will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the forest conservation inspector, must be made within the timeframe established by the inspector.

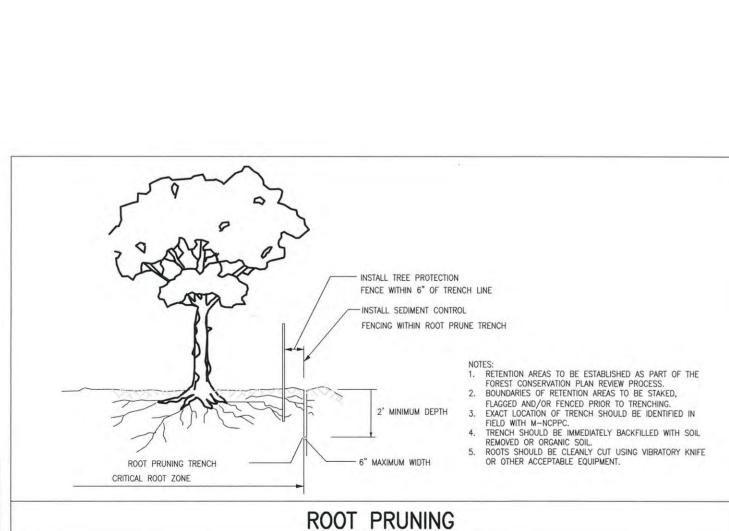
Post-Construction

- 9. After construction is completed, an inspection shall be requested. Corrective
- measures may include: a. Removal and replacement of dead and dying trees
- b. Pruning of dead or declining limbs c. Soil aeration
- d. Fertilization e. Watering
- f. Wound repair g. Clean up of retention areas
- 10. After inspection and completion of corrective measures have been undertaken, all temporary protection devices shall be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both the Department of Permitting Services and the forest conservation inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

		I T	2,030,000		4			
Number	Latin Name	Common Name	Size	Condition	# of Multiple Leaders (# of Leaders >30")	Specimen Tree	CRZ Impact	Action
1	Liriodendron tulipifera	Tulip Poplar	35" cal.	Good		Y		None
2	Liriodendron tulipifera	Tulip Poplar	25" cal.	Good		N		None
3	Liriodendron tulipifera	Tulip Poplar	27" cal.	Good		N		None
4	Liriodendron tulipifera	Tulip Poplar	30" cal.	Good		Y		None
5	Liriodendron tulipifera	Tulip Poplar	24" cal.	Good		N		None
6	Liriodendron tulipifera	Tulip Poplar	34" cal.	Good		Y		None
7	Liriodendron tulipifera	Tulip Poplar	41" cal.	Good		Y	13%	Filter Logs, Root Prune, SWM construction
8	Liriodendron tulipifera	Tulip Poplar	32" cal.	Good		Y	6%	Filter Logs, Root Prune, SWM construction
9	Liriodendron tulipifera	Tulip Poplar	40" cal.	Good Split twin	1	Y	2%	Filter Logs, Root Prune, SWM constructio
10	Liriodendron tulipifera	Tulip Poplar	28" cal.	Good		N	1%	Filter Logs, Minor Fill
11	Liriodendron tulipifera	Tulip Poplar	24" cal.	Good		N	11%	Filter Logs, Minor Fill
12	Liriodendron tulipifera	Tulip Poplar	36" cal.	Good		Y	7%	Filter Logs, Minor Fill
13	Quercus rubra	Red Oak	27" cal.	Good		N	2%	Filter Logs, Minor Fill
14	Liriodendron tulipifera	Tulip Poplar	43" cal.	Good split twin	1	Y	15%	Filter Logs, Root Prune, SWM construction
15	Liriodendron tulipifera	Tulip Poplar	26" cal.	Good	1	N	16%	Filter Logs, Root Prune, SWM construction
16	Liriodendron tulipifera	Tulip Poplar	37" cal.	Good		Y	27%	Filter Logs, Root Prune, SWM construction
17	Liriodendron tulipifera	Tulip Poplar	41" cal.	Good		Y		Filter Logs, Root Prune, SWM construction
18	Liriodendron tulipifera	Tulip Poplar	27" cal.	Good			4%	Filter Logs, Root Prune, Minor Grading
19	Liriodendron tulipifera	Tulip Poplar	33" cal.	Good	-	N	6%	
20	Liriodendron tulipifera	Tulip Poplar				Y		None
			24" cal.	Good		N		None
21	Liriodendron tulipifera	Tulip Poplar	26" cal.	Poor		N		None
22	Liriodendron tulipifera	Tulip Poplar	24" cal.	Good		N		None
23	Liriodendron tulipifera	Tulip Poplar	43" cal.	Good		Y	4%	Filter Logs, Root Prune, Grading/Fill
24	Liriodendron tulipifera	Tulip Poplar	35" cal.	Good		Y		None
25	Liriodendron tulipifera	Tulip Poplar	46" cal.	Poor		Υ	5%	Filter Logs, Root Prune, Ex. Pavement Impr
26	Prunus subhirtella 'Pendula'	Weeping Higan Cherry	24" cal.	Good		N	100%	To be Removed
27	Platanus occidentalis	American Sycamore	27" cal.	Good		N	0%	Filter Logs
28	Liriodendron tulipifera	Tulip Poplar	26" cal.	Good		N		None
29	Liriodendron tulipifera	Tulip Poplar	25" cal.	Good		N		None
30	Nyssa sylvatica	Black Gum	30" cal.	Good		Y		None
31	Acer rubrum	Red Maple	42" cal.	Good		Y		None
32	Fagus grandiflora	American Beech	24" cal.	Good		N	0%	Filter Logs
33	Acer rubrum	Red Maple	27" cal.	Good		N	33%	Filter Logs, Ex. Pavement Improv. See Note
34	Fagus grandiflora	American Beech	55" cal.	Good		Y	47%	Filter Logs, Ex. Pavement Improv. See Note
35	Liriodendron tulipifera	Tulip Poplar	43" cal.	Good		Y	3%	Filter Logs, Root Prune, Ex. Pavement Impr
36	Liriodendron tulipifera	Tulip Poplar	42" cal.	Good	1	Y		None
37	Liriodendron tulipifera	Tulip Poplar	33" cal.	Good		Y	0%	Filter Logs, Root Prune, Ex. Pavement Impr
38	Liriodendron tulipifera	Tulip Poplar	31" cal.	Good		Y		None
39	Acer rubrum	Red Maple	33" cal.	Good		Y		To be Removed
40	Liriodendron tulipifera	Tulip Poplar	32" cal.	Good		Y		None
41	Acer rubrum	Red Maple	27" cal.	Good		N		None
42	Liriodendron tulipifera	Tulip Poplar	25" cal.	Good		N		None
43	Nyssa sylvatica	Black Gum	36" cal.	Good		Y	2%	Root Prune, Minor
44	Liriodendron tulipifera	Tulip Poplar	48" cal.	Good		Y	17%	None
45	Liriodendron tulipifera	Tulip Poplar	55" cal.	Good			1 / 70	
46	Nyssa sylvatica	Black Gum	30" cal.	Good		Y	050	None
47	Quercus rubra	Red Oak				Y	65%	See Note 2
48	Liriodendron tulipifera	Tulip Poplar	27" cal.	Good		N Y	5%	None

. MNCPPC staff conducted an investigation of the actual location of roots from this tree with an air spade and has determined that there are no roots from this tree within the project limits of disturbance.

2. Tree protection measures to be coordinated with MNCPPC arborist in field.



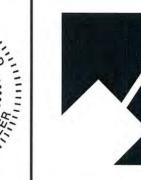
CIVIL ENGINEERING CONSULTANT:

Tharles P. Johnson & Associates, Inc. Civil and Environmental Engineers • Planners • Landscape • Architects • Surveyors Associates 1751 Elton Rd., Ste 300 Silver Spring, MD 20903 301-434-7000 Fax: 301-434-9394

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www.cpja.com • Silver Spring, MD • Gaithersburg, MI	• Annapolis, MD •	College Park, MD • Frederick, MD • Fairfax, VA	
DESIGN TEAM		QA/QC Reviewer Avanturs,LLC DESIGN	Checked By:
Structural Engineer Strucctural Engineering Group	Checked By:	Civil Engineer Charles P. Johnson & Assoc.	Checked By:
Landscape Architect Annapolis Landscape Architects	Checked By:	Geotechnical Engineer GeoConcepts Engineering, Inc	Checked By:
Architect	Checked By:	MEP Engineer Setty & Associates	Checked By:
Greenhouse Designer Van Wingerden Greenhouse Co.	Checked By:	Arborist Pitchford Associates	Checked By:

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.

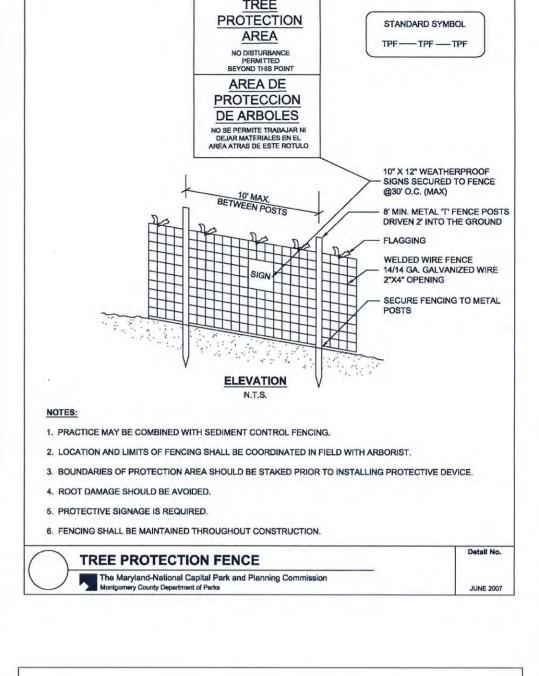
License No. 19908 Expiration Date 1/6/2017

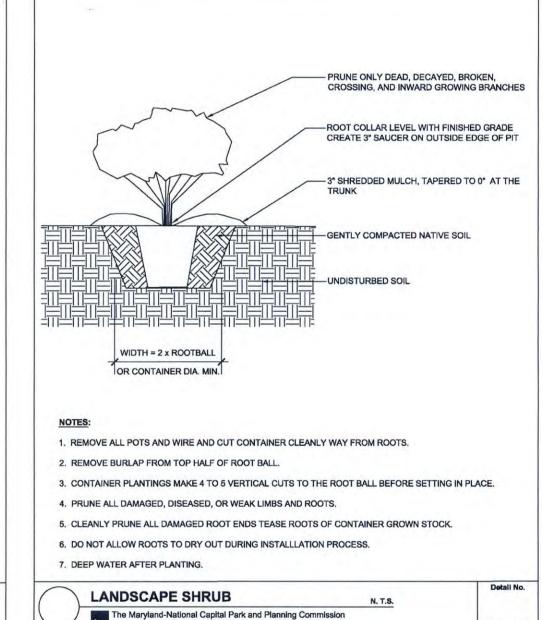


The Maryland-National Capital Park and Planning Commission

Montgomery County Department of Parks 9500 Brunett Avenue Silver Spring, Maryland 20901 (301) 495-2535

REVIEW AND APPROVAL	ISSUE	FOR PROC	CUREMENT ON
	-		REVISIONS
Daryl Starks	Rev. No.	Date	Description
Project Manager Date Todd Dinkins			
Construction Manager Date Mark Buenavista			
Park Manager Date			





PLANT SCHEDULE

NOTES:

"B" = DISTANCE OF DRIP LINE EDGE FROM TRUNK OF TREE

"A" = 1 OF "B"

CANOPY TREE QTY COMMON NAME / BOTANICAL NAME CONT CAL SIZE RED OAK / QUERCUS RUBRA B & B 3" CAL 12-14" HT

INSPECTIONS

All field inspections must be requested by the applicant. Inspections must be conducted as

Tree Save Plans and Forest Conservation Plans without Planting Requirements

1. After the limits of disturbance have been staked and flagged, but before any clearing or grading begins 2. After necessary stress reduction measures have been completed and protection

SITE GRADING / CONSTRUCTION

-SNOW FENCING OR EQUAL

-PRUNE ONLY DEAD, DECAYED, BROKEN,

BRANCHES (NEVER PRUNE LEADER)

-REINFORCED RUBBER HOSE (BLACK)

-DOUBLE STRAND NO. 12 GAUGE WIRE,

6' HARDWOOD STAKE AT 90° ANGLE TO

WIRE (2' INTO UNDISTURBED EARTH), 3

-3" SHREDDED MULCH TAPERED TO 0" AT

-EXISTING GRADE / UNDISTURBED SOIL

- CUT BURLAP, ROPE AND WIREBASKET

NATIVE SOIL WITH INOCULANT

-SURVEYORS FLAGGING (WHITE)

STAKES PER TREE

731

TREE TO BE PROTECTED

. FENCING SHALL BE PLACED AT THE DRIP LINE OF TREES TO BE PROTECTED DURING CONSTRUCTION

2. GROUP OF TREES MAY BE FENCED AS ONE.

TREE PROTECTION DETAIL

WIDTH = 2 x ROOTBALL

OR CONTAINER DIA.

5. ROOT FLAIR EVEN WITH LEVEL OF UNDISTURBED GROUND.

The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks

4. DO NOT DAMAGE OR CUT LEADER.

1. STAKES AND WIRES MUST BE REMOVED NO LATER THAN 12 MONTHS AFTER PLANTING.

DECIDUOUS PLANTS - (2 ½ " Caliper or Larger)

2. PLANTING HOLE SHALL BE DUG BY A BACKHOE OR OTHER MACHINE AND FINISHED BY HAND.

IF SURROUNDING SOIL IS COMPACTED AS DETERMINED BY M-NCPPC PLANNING DEPT INSPECTOR OR PARKS DEPT FOREST ECOLOGIST, AN AREA UP TO 5 TIMES THE DIA. OF THE ROOT MASS SHALL BE EXCAVATED OR ROTOTILLED TO A 1' DEPTH AND THE SOIL SHALL BE AMENDED.

The Maryland-National Capital Park and Planning Commission Montgomery County Department of Parks

EXCEPT ON THE SIDE OF DISTURBANCE FENCING SHALL NOT BE PLACED CLOSER TO THE TREE THAN 1/2 THE TOTAL DISTANCE FROM THE TREE TO THE LIMITS OF THE TREE'S DRIP LINE. THIS SPACE IS TO

measures have been installed, but before any clearing and grading begin. 3. After completion of all construction activities, but before removal of tree protection fencing, to determine the level of compliance with the provision of the forest conservation.

Additional Requirements for Plans with Planting Requirements

- 4. Before the start of any required reforestation and afforestation planting 5. After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.
- 6. At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond.

SCALE: AS-SHOWN

PROFESSIONAL CERTIFICATION hereby certify that this plan is prepared in accordance with Maryland Forest Conservation Regulations. KEVIN T. GARVEY, RLA REGISTERED LANDSCAPE ARCHITECT # MD 3801

DEVELOPER'S CERTIFICATE The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. including financial bonding, forest planting, maintenance, and all other applicable agreements. Developer's Name: M-NCPPC Park Development Division Printed Company Name Contact Person or Owner: Mark Buenavista 9500 Brunett Avenue, Silver Spring, MD 20901 Phone & Email: 301-495-2522 mark.buenvista@montgomeryparks.org Signature:

FOREST CONSERVATION PLAN NOTES AND DETAILS Brookside Gardens Greenhouse and Site Work

DWG. # 3 of 3

SHT. # 28 of 69

ATTACHMENT 3

Civil and Environmental Engineers • Planners • Landscape Architects • Surveyors

Silver Spring, MD • Gaithersburg, MD • College Park, MD • Frederick, MD • Fairfax, VA

February 12, 2016

Ms. Amy Lindsey Montgomery County Planning Department 8787 Georgia Avenue Silver Spring, Maryland 20910

RE: Brookside Gardens Greenhouse and Site Work

Variance Request

NRI/FSD # 4-94149 Approved: 1997-10-03 Updated: 2007-05-04

FCP #P-95001 Approved: 1995-10-05 FCP #PP1995001 Approved 2014-02-07

Dear Ms. Lindsey,

Our client, the Park Development Division of the Maryland – National Capital Park and Planning Commission (M-NCPPC), requests a variance from Section 22A-21 of the Montgomery County Code for the removal of one (1) specimen tree (>30" DBH at 4.5" from ground). In addition, grading and land disturbance activites/impacts will affect seventeen (17) specimen trees as shown in the table below with associated % of CRZ impact for each tree. As proposed, this project intends to save each of the seventeen (17) trees that will have their CRZ impacted as noted in the remarks column in the table below.

A paper copy of the Preliminary Forest Conservation Plan set and a CD containing a digital copy of this Variance request letter and Preliminary Forest Conservation Plan are attached for your review and comment. The tables below identify the specimen trees that are part of this Variance Request. This request is being made in conjunction with design plans being prepared for Brookside Gardens Greenhouse and Site Work.

Trees Requiring a Variance for Removal and CRZ Impacts

Tree ID No.	DBH (in)	Common Name	Botanical Name	Condition	CRZ Impact	Remove Tree	Remarks
7	41"	Tulip Poplar	Liriodendron tulipifera	Good	13.5%	No	Root Prune(minor) SWM construction
8	32"	Tulip Poplar	Liriodendron tulipifera	Good	6.6%	No	Root Prune (minor) SWM construction
9	40"	Tulip Poplar	Liriodendron tulipifera	Good	2.9%	No	Grading / (minor) Fill
12	36"	Tulip Poplar	Liriodendron tulipifera	Good	7.0%	No	Grading / (minor) Fill
14	43"	Tulip Poplar	Liriodendron tulipifera	Good	15.3%	No	Root Prune SWM construction
16	37"	Tulip Poplar	Liriodendron tulipifera	Good	27.8%	No	Root Prune SWM construction mostly fill
17	41"	Tulip Poplar	Liriodendron tulipifera	Good	4.8%	No	Root Prune (minor) SWM construction mostly fill
23	43"	Tulip Poplar	Liriodendron tulipifera	Good	4.9%	No	Grading / Fill Root Prune

25	46"	Tulip Poplar	Liriodendron tulipifera	Poor	5.7%	No	Root Prune (minor) existing pavement improvements
34	55"	American Beech	Fagus grandiflora	Good	47.1%	No	No Action Required see Note 1 below
35	43"	Tulip Poplar	Liriodendron tulipifera	Good	3.4%	No	Root Prune (minor)
37	33"	Tulip Poplar	Liriodendron tulipifera	Good	0.9%	No	Root Prune(minor) Removal of ex. paving
39	33"	Red Maple	Acer rubrum	Good	TBR	Yes	Removal-Grading and paving
43	36"	Black Gum	Nyssa sylvatica	Good	2.8%	No	Root Prune (minor)
44	48"	Tulip Poplar	Liriodendron tulipifera	Good	23.3%	No	Grading, root prune as roots are discovered, some CRZ Impacts beyond immediate ex paving constraints therefore may be minimal roots in some areas
45	55"	Tulip Poplar	Liriodendron tulipifera	Good	0.07%	No	No measurable impact to the CRZ
46	30"	Black Gum Nyssa sylvatica		Good	65.3%	No	Grading, root prune as roots are discovered, some CRZ Impacts beyond immediate ex paving constraints therefore may be minimal roots in some areas
48	36"	Tulip Poplar	Liriodendron tulipifera	Good	6.8%	No	Root Prune (minor)

TBR = To be removed.

Note 1: MNCPPC staff conducted an investigation of the actual location of roots from this tree with an air spade and has determined that there are no roots from this tree within the project limits of disturbance.

In addition to the above summary, we submit herewith the following "Narrative Discussion" as required by the Montgomery County Forest Conservation Plan Submission Requirements for the five items below (discussion questions in italics, responses in regular type):

- 1. Describe the special conditions peculiar to the property which would cause unwarranted hardship.
 - 1. This proposed project involves the demolition of an existing greenhouse and the construction of a new, larger greenhouse in and around the footprint of the existing greenhouse that will be demolished. Associated sitework (access and parking) is also proposed. The existing grounds and facilities include greenhouses, residence-type buildings, garages, maintenance facilities and other site improvements etc. located throughout the property. Mature trees and woodland surround the existing buildings and site improvements with clearings and canopy openings. The proposed improvements require stormwater management facilities and associated ESD (environmental site design) improvements. The plan proposes strategically located SWM and ESD facilities in order to achieve less than 5000 SF of forest clearing in this dense tree environment. Working around each tree and CRZ would not allow for simple, reasonable site improvements proposed.
- 2. Describe how enforcement of these rules will deprive the landowner of rights commonly enjoyed by others in similar areas.
 - 2. Without granting a variance for the minimal impacts, the landowner will be penalized for improving and enhancing a facility that provides valuable resources to the public, hence, would be uncommon for a resource of this type.
- 3. Verify that State water quality standards will not be avoided or that a measureable degredation in water quality will occur as a result of granting the variance.

- 3. The proposed design provides for State required water quality through three ESD facilities (micro-bioretention basins), thus handling the concern of this narrative discussion requirement.
- 4. Provide any other information appropriate to the request,
 - 4. Other Information Please refer to the site design plans for the scrutiny given to the site design relative minimizing impacts and substantiating this request.
- 5. Applicants must apply for and include mitigation in their requests for variances for all trees, and other vegetation, regulated under section 5-1607 that are removed or disturbed by the applicant's activities.
 - 5. The applicant proposes to mitigate for the removal of the one (1) specimen tree (#39) outside of the existing forest area, on-site as required using the formula 1" DBH mitigation for every 4" DBH removed (in this case 33" DBH removed / 4" = 8.25 inches DBH required divided by 3" caliper tree yields 2.75 trees (say 3) trees required for mitigation).

Both the Montgomery County Forest Conservation Law Chapter 22-A 2014 and Planting requirements for Land-Disturbing Activities and Related Mitigation on M-NCPPC Montgomery County Parkland, revised January 2008 were utilized to complete the referenced Forest Conservation Plan.

If you have any questions on the details of this application please do not hesitate to contact me at (301) 434-7000 X155.

Sincerely.

Kevin Garvey, RLA

Public Sector

Charles P. Johnson & Associates, Inc.

cc: MCPPC - Mark Buenavista