

NARRATIVE

FOREST CONSERVATION CONCEPT PLAN

for

GOVERNMENT EMPLOYEE INSURANCE COMPANY (GEICO) PROPERTY
TS-M LOCAL MAP AMENDMENT (REZONING) APPLICATION

7th Election District Chevy Chase, Maryland

prepared for:

GEICO One GEICO Plaza Washington, D.C. 20076

prepared by:



Dewberry & Davis

804 West Diamond Avenue Gaithersburg, Maryland 20878

Originally submitted: March 31, 1998 Revised: July 2, 1998

PRELIMINARY FOREST CONSERVATION PLAN

A Forest Conservation Worksheet for each area has been prepared and is included with this narrative.

TS-M Portion

The Worksheet indicates that 1.49 acres of afforestation are required. This requirement will be met in the following manner:

Tree plantings within the Subject Property	0.70 acres
Off-site Afforestation:	0.79 acres +/-
Total Afforestation	1.49 acres

R-60/TDR Portion

The worksheet indicates that 2.49 acres of afforestation are required. This requirement will be met in the following manner:

Tree plantings within the Subject Property	1.17 acres
Credit for trees preserved on-site	0.52 acres
Off-site Afforestation:	0.80 acres +/-
Total Afforestation	2.49 acres

Tree Plantings within the Subject Property

A conceptual study of the site (see attached) indicates that as many as 150 individual trees could be planted within the TS-M potion of the Subject Property and 250 individual trees in the R-60/TDR portion as part of the redevelopment of the site. In addition, as many as 221 existing trees may be preserved including 14 specimen trees.

Per M-NCPPC regulations, 25% of the mature canopy area of proposed individual trees can be credited toward reforestation / afforestation requirements with a ceiling on the percentage of the total trees planted on the site that can be included in this calculation ranging from 20 to 100%.

Based on a recent conversation with Ms.Catherine A. Conlon of the Environmental Planning Division of M-NCPPC, 100% of the trees proposed as part of this redevelopment will be allowed as a credit toward the afforestation requirements.

In addition, based on a recent conversation with Brenda Sandberg of M-NCPPC, credit for 25% of the canopy area of trees to be preserved and 100% of the canopy area of specimen trees to be preserved can be applied to the afforestation requirements.

Therefore, the calculation of the afforestation credit for the TS-M portion to be realized is as follows:

Table 1. Calculation of Total Afforestation Credit for On-site Tree Plantings in the TS-M Portion.

Number of Trees	Size (d = diameter of tree canopy coverage) in feet	Credit per tree in square feet $\{0.25[\pi(d/2)^2]\}$	Total Credit in square feet [acres]
20	40	314.2	6,284. [0.14]
35	35	240.5	8,417. [0.19]
80	30	176.7	14,136. [0.32]
15	25	122.7	1,840. [0.04]
150		Total Credit	30,677. [0.70]

In addition, the calculation of the afforestation credit for the R-60/TDR portion to be realized is as follows:

Table 2. Calculation of Total Afforestation Credit for On-site Tree Plantings in the R-60/TDR Portion.

Number of Trees	Size (d = diameter of tree canopy coverage) in feet	Credit per tree in square feet $\{0.25[\pi(d/2)^2]\}$	Total Credit in square feet [acres]
30	40	314.2	9,426. [0.22]
65	35	240.5	15,632. [0.36]
125	30	176.7	22,087. [0.51]
30	25	122.7	3,681. [0.08]
250		Total Credit	50,826. [1.17]

Finally, the calculation of the afforestation credit for trees preserved in the R-60/TDR portion of the site is as follows:

Table 3. Calculation of Total Afforestation Credit for Preserving On-site Trees in the R-60/TDR Portion.

		Total Credit	22,617. [0.52]
[Specimen Trees] 14	35 (see note 2)	$\{1.0[p(d/2)^2]\} = 962.0$	13,468. [0.31]
207	15 (see note 1)	${0.25[p(d/2)^2]} = 44.2$	9,149. [0.21]
Number of Trees	Size (d = diameter of tree canopy coverage) in feet	Credit per tree in square feet $\{0.25[\pi(d/2)^2]\}$	Total Credit in square feet [acres]

Notes:

- 1. Average of trees to be preserved per NRI/FSD field survey notes.
- 2. Average of specimen trees to be preserved per NRI/FSD field survey notes.

Off-site Afforestation

Specific off-site afforestation measures have yet to be determined.

QUALIFICATIONS OF PREPARER

Stuart D. Wallace, ASLA is a Registered Landscape Architect in the State of Maryland and has been in practice for 18 years. Mr. Wallace has received Master's Degrees in Landscape Architecture and Civil Engineering and also attended a Maryland Department of Natural Resources Forest Conservation Act Technical Training Workshop in 1992.

Mr. Wallace has produced Natural Resource Inventories, Forest Stand Delineations and Forest Conservation Plans for a variety of public and private clients in Maryland over the past six years.

George Warholic holds a Bachelors of Landscape Architecture, and is certified through the Maryland Department of Natural Resources to perform and prepare Forest Stand Delineations and Forest Conservation Plans.

ATTACHMENTS

- 1. Forest Conservation Worksheets
- 2. Forest Conservation Concept Plan*
 - * This plan is illustrative only and is only submitted as a representation of how the site might be developed with the resulting tree plantings and tree preservation areas.

SUMMARY

This narrative is intended to demonstrate the feasibility of meeting the Forest Conservation requirements as part of the materials supporting an application to rezone 9.91 acres of the Subject Property as TS-M. While the plan is not being submitted for final approval at this time, the narrative identifies how the requirements will be met if the Conceptual Plan is pursued.

The Subject Property consists of a total of 26.5 acres. 9.91 acres is included in the area proposed for rezoning as TS-M. The remainder, 16.59 acres, will be zoned R-60/TDR. For the purposes of this submittal, some of the calculations in this report are segregated according to the parcel boundaries.

As a result of proposed extensive redevelopment within the TS-M portion of the Subject Property, 164 trees will be removed. In addition, per the current conceptual plan for the R-60/TDR portion of the Subject Property, as many as 200 trees will be removed and 221 preserved.

The Forest Conservation Concept Plan indicates the amount of afforestation required for the TS-M portion of the Subject Property - 1.49 acres - will be accomplished through a combination of on-site streetscape and open space tree plantings and off-site afforestation.

The Forest Conservation Concept Plan indicates the amount of afforestation required for the R-60/TDR portion of the Subject Property - 2.49 acres - will be accomplished through a combination of on-site streetscape and open space plantings, preservation of existing trees and off-site afforestation.

CONCEPTUAL DEVELOPMENT PLAN

Proposed redevelopment of the TS-M portion of the Subject Property includes demolition of the existing structures and built features on the site, regrading of the property, removal of all trees located within the property lines and construction of a mixed use development combining office-commercial and multi-family residential uses in a series of structures positioned parallel with Willard Avenue and Friendship Boulevard.

Open space and public use areas along the perimeter of the site and between structures will include extensive canopy and ornamental tree plantings to help define distinct urban streetscapes and building courtyard areas.

Proposed redevelopment of the R-60/TDR portion of the Subject Property includes removal of a portion of the existing trees and construction of single family, attached residential structures.

FRIENDSHIP COMMONS - TS-M

02-Jul-98

1.49

FOREST CONSERVATION WORKSHEET VERSION 1.1

NET TRACT AREA:						
A Total tract area					cavetee s	9.91
A. Total tract area B. Area within 100 year floodplain (If greater than 400 acre drainage area)						0.00
C. Dedicated land	-					0.00
D. Net tract area						9.91
D. Net tract area						
LAND USE CATEGOR	RY: (from t	able 3.2.1,	, page 40, l	Manual)		
Input the num	nber "1" un	der the apr	propriate la	nd use		
zoning, and l						
ARA	MDR	IDA	HDR	MPD	CIA	
0	0	0	0	1	0	
E. Afforestation Thresh	old			15%	$\mathbf{D} =$	1.49
F. Conservation Thresh	old			15%	D =	1.49
EXISTING FOREST	YOURD.					
EAISTING FOREST	CO V Bar.					
G. Existing forest cover	•					0.00
H. Area of forest above						0.00
I. Area of forest above						0.00
I. I II OI OI IOI IO						
BREAK EVEN POINT	r:					
		14.14				0.00
J. Forest retention abov						0.00
K. Clearing permitted v	vithout miti	gation				0.00
PROPOSED FOREST	CLEARIN	IG:				
I ROI OULD I OILL						
L. Total area of forest	to be cleare	d				0.00
M. Total area of forest						0.00
PLANTING REQUIR	EMENTS:					
N. Reforestation for cle	earing above	e conservat	ion thresho	old		0.00
P. Reforestation for cle						0.00
Q. Credit for retention						0.00
R. Total reforestation r						0.00
S. Total afforestation re	-					1.49
	ad afformate					1.40

T. Total reforestation and afforestation required.....

FRIENDSHIP COMMONS - R-60/TDR

02-Jul-98

FOREST CONSERVATION WORKSHEET VERSION 1.1

NET TRACT AREA:	
A. Total tract area	16.59
B. Area within 100 year floodplain (If greater than 400 acre drainage area)	0.00
C. Dedicated land	0.00
D. Net tract area	16.59
	20107
LAND USE CATEGORY: (from table 3.2.1, page 40, Manual)	
Input the number "1" under the appropriate land use	
zoning, and limit to only one stary.	
ARA MOR JOA HDR MPD CIA	
0 0 0 0 1 0 0	
E. Afforestation Threshold. 15% D =	2.49
F. Conservation Threshold	3.32
EXISTING FOREST COVER:	
	*
G. Existing forest cover	0.00
H. Area of forest above afforestation uncarrior with the control of the control o	0.00
I. Area of forest above conservation threshold	0.00
BREAK EVEN POINT:	
	0.00
J. Forest retention above threshold with no mitigation	0.00
K. Clearing permitted without mitigation	0.00
PROPOSED FOREST CLEARING:	
PROPOSED FOREST CLEARING.	
L. Total area of forest to be cleared	0.00
M. Total area of forest to be retained	0.00
IVI. Total area of forest to be retained	0.00
in the second se	
PLANTING REQUIREMENTS:	
N. Reforestation for clearing above conservation threshold	0.00
P. Reforestation for clearing below conservation threshold	0.00
Q. Credit for retention above conservation threshold	0.00
R. Total reforestation required	0.00
S. Total afforestation required	
5. Total afforestation required	2.49

MARYLAND-NATIONAL CAPITAL PARK AND PLANNING COMMISSION FOREST CONSERVATION PLAN RECOMMENDATIONS

TO:

TO:	Malcolm Shaneman Development Review Division
SUBJ	Preliminary Forest Conservation Plan #_1-99039 Preliminary Plan_Friendship Commons (GEICO prop.) Date Recd12/11/98 NRI/FSD #_4-98276
Plan Mont	subject Forest Conservation Plan has been reviewed by the Environmental ning Division to determine if it meets the requirements of Chapter 22A of the gomery County Code (Forest Conservation Law). The following determination been made:
SUBM	ISSION ADEQUACY
-	Adequate as submitted Inadequate for evaluation. The following items must be submitted: Forest Conservation Plan Drawing Forest Conservation worksheet Approved NRI/FSD Map Development Program Justification for afforestation/reforestation method Qualifications of Preparer(s) Long term protection methods Other
RECO	MMENDATIONS _ Disapprove for reasons cited in comments below.
X	X Required site inspections by M-NCPPC monitoring staff (as specified in "Trees Technical Manual") X Approval of the following items by M-NCPPC staff prior to DEP issuance of the sediment and erosion control permit: X Tree Protection Plan prepared by licensed arborist. X Afforestation/Reforestation Planting Plan X Submittal of financial security to M-NCPPC prior to clearing or grading. X Record plat to show appropriate notes and/or easements. Agreements must be approved by M-NCPPC staff prior to recording plats. X Maintenance agreement to be reviewed and approved by M-NCPPC staff prior to first inspection of planted areas. X Other Submit PFCP copies with landscape architect seal & signature for approval.
X	Comments: The following will also need to be submitted for the final FCP: o detailed landscape planting plan o final grading/sediment & erosion control plan with final LOD o tree protection plan for the park and greenway area and the trees along Western Avenue prepared by a licensed arborist o revised tree preservation credit based on arborist analysis & final LOD o signed off-site planting agreements and easements
SIGN	Environmental Planning Division (36) 495-2162 ECPR r 1/16/97