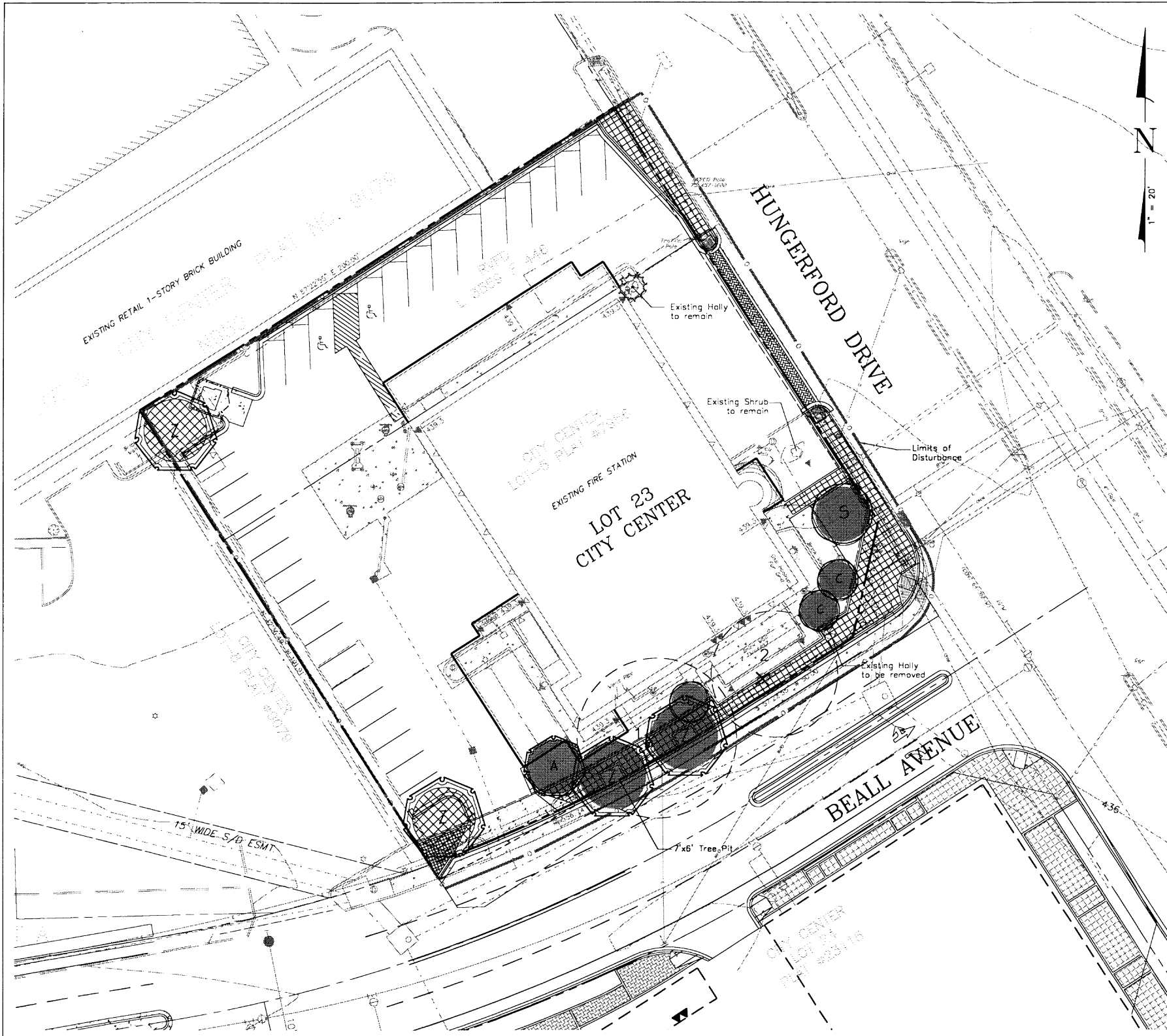


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Project name: Rockville Fire Dept #3
MHG File No: 01.189
27-Dec-05

FOREST CONSERVATION WORKSHEET

A	Total area of tract	40026 s.f.
B	Area within 100 year flood plain	0 s.f.
C	Area of land to be used for agriculture	0 s.f.
D	Area within WSSC or MCDOT ROW/leasehold responsibility	0 s.f.
E	Net tract area	40026 s.f.
F	Zoning Classification	TCM-1 (Town Center Mixed Use)
G	Afforestation threshold	15 % of net tract area = 6004 s.f.
H	Conservation threshold	15 % of net tract area = 6004 s.f.
I	Existing forest cover	0 s.f.
J	Forest cover above afforestation threshold	0 s.f.
K	Forest cover above conservation threshold	0 s.f.

CALCULATION OF BREAK-EVEN POINT

L	Break even point	#N/A s.f.
M	Forest area to be retained	0 s.f.
N	Total area of forest to be cleared	0 s.f.

CALCULATION OF AFFORESTATION REQUIREMENT

P	Afforestation requirement	6004 s.f.
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CALCULATION OF REFORESTATION REQUIREMENT

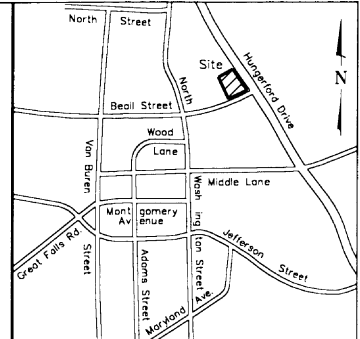
Q	Area of forest above conservation threshold to be cleared	0 s.f.
R	Area of forest below conservation threshold to be cleared	0 s.f.
S	Forested area above conservation threshold to be saved	0 s.f.
T	Planting required for clearing above threshold	0 s.f.
U	Planting required for clearing below threshold	0 s.f.
V	Credit for forest saved above conservation threshold	0 s.f.
W	Total reforestation requirement	0 s.f.

TOTAL PLANTING REQUIREMENT

X	Afforestation and reforestation	6004 s.f.
Y	Credit for trees and landscaping	
Number of Street Trees allowable for Afforestation Credit (25% of Total Planting Requirement @ 400 S.F. per tree)		4 trees
Individual/Street Trees		
2 1/2" Cal. Shade	3 trees @ 400 S.F. per tree	1200 s.f.
2 1/2" Cal. Flowering	4 trees @ 200 S.F. per tree	800 s.f.
Significant Trees	s.f. of C.R.Z. =	0 s.f.
Total credit =		2000 s.f.
Z	Total forest planting requirement	4004 s.f.

*Includes 4 street trees on Beall Avenue

NOTES
-Any inconsistency of displayed totals may be due to rounding of values



VICINITY MAP
SCALE 1" = 2,000'

LEGEND

- Proposed Trees for Tree Replacement Credit
- Proposed Trees for Afforestation Credit
- Significant Tree and Critical Root Zone CRZ dia = DBH x 3'
- Significant Trees to be removed
- Limits of Disturbance
- Stream Valley Buffer

FOREST CONSERVATION TABLE

EXISTING TRACT AREA	40,026 S.F.
EXISTING FOREST AREA	0 S.F.
FOREST TO REMAIN	0 S.F.
PROPOSED TREE RETENTION	0 S.F.
PROPOSED CLEARING	0 S.F.
REFORESTATION REQUIRED	0 S.F.
AFFORESTATION REQUIRED	6,004 S.F.
OFF-SITE AFFORESTATION	4,004 S.F.

NOTES:
1. THE OFF-SITE AFFORESTATION REQUIREMENT IS TO BE MET BY PAYMENT OF A FEE-IN-LIEU OF \$1,601.60 (= \$0.40 per S.F. x 4,004 S.F.) OR BY OFF-SITE FOREST PLANTING IN AN AREA TO BE DETERMINED BY THE CITY FORESTER.
2. CONCRETE WASHOUT AREA SHALL BE DESIGNATED BY THE CONTRACTOR IN AN AREA THAT WILL NOT AFFECT THE ROOT ZONES OF EXISTING TREES.
3. TREE IDENTIFICATION NUMBERS CORRESPOND TO THOSE ON THE NRI/FSD. SEE ALSO THE TREE LIST ON SHEET 2 OF THIS PLAN.

TREE REPLACEMENT SCHEDULE
Trees to be removed

Tree#	Common Name	Species	Size (DBH)	# of Required Replacements
1	Honeylocust	Gleditsia triacanthos	18"	1
2	Honeylocust	Gleditsia triacanthos	15"	1

Total Tree Replacements Required: 2

FOREST CONSERVATION CREDITS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CREDIT
SHADE TREES					
A	1	Acer buergerianum	Tender Maple	2 1/2" cal.	400 s.f. Afforestation
B	3	Cornus x Celestial (Rutdan)	Celestial Dogwood	8-10" ht.	600 s.f. Afforestation
S	1	Syringa reticulata Ivory Silk	Ivory Silk Tree Lilac	8-10" ht.	200 s.f. Afforestation
Z	2	Zelkova serrata Village Green	Village Green Zelkova	2 1/2" cal.	2 Replacements
Shade Tree for Afforestation Credit (400 s.f. each)					2 Replacement Trees
Ornamental Tree for Afforestation Credit (200 s.f. each)					2 Replacement Trees
Shade Tree for Tree Replacement Credit					2,000 s.f. Afforestation
TOTAL CREDITS:					2,000 s.f. Afforestation

LANDSCAPE PLANT SCHEDULE

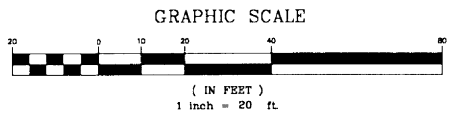
KEY	QTY	BOTANICAL NAME	COMMON NAME	CAL.	HGT.	ROOT	NOTES
DECIDUOUS TREES							
A	1	Acer buergerianum	Tender Maple	2 1/2"-3"		B&B	
Z	4	Zelkova serrata Village Green	Village Green Japanese Zelkova	2 1/2"-3"		B&B	
ORNAMENTAL TREES							
C	3	Cornus x Celestial (Rutdan)	Celestial Dogwood		8-10'	B&B	
S	1	Syringa reticulata Ivory Silk	Ivory Silk Tree Lilac		8-10'	B&B	

FOREST CONSERVATION PLAN CERTIFICATION
I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREON IS CORRECT AND THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF EXISTING STATE AND CITY FOREST CONSERVATION LEGISLATION.

OWNER
ROCKVILLE VOLUNTEER FIRE DEPARTMENT
380 HUNGERFORD DRIVE
ROCKVILLE, MD 20849
CONTACT: RUSSELL W. DAWSON
PHONE: 301-424-0310

FOR LOCATIONS OF CITY WATER AND SEWER CALL "CITY UTILITIES SUPERINTENDENT" AT 240-314-8567. FOR LOCATIONS OF OTHER UTILITIES CALL "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION

MACRIS, HENDRICKS & GLASCOCK, P.A.
BY: GEORGE S. HASKINS
REGISTERED LANDSCAPE ARCHITECT
MARYLAND REG. NO. 3263



TAX MAP GR 342 WSSC 218 NW 07

LANDSCAPE & FOREST CONSERVATION PLAN
ROCKVILLE VOLUNTEER FIRE DEPARTMENT #3
CITY CENTER
LOT 5, PLAT-7956 & L-3559 F-446 (PENDING LOT-23)
4TH E.D. - CITY OF ROCKVILLE - MONTGOMERY COUNTY - MARYLAND

MHG Macris, Hendricks & Glascock, P.A.
Engineers • Planners
Landscape Architects • Surveyors

9220 Wightman Road, Suite 120
Montgomery Village, Maryland
20886-1279
Phone 301.670.0840
Fax 301.948.0693
www.mhga.com

Proj. Mgr.	Design
MDP	GSH
Date	Scale
9-20-06	1" = 20'
Project No.	Sheet
01-189-31	1 of 2



Tree Protection and Planting Notes

Protection:

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. Attendees shall include the developer's representative, construction superintendent, Maryland Licensed Tree Expert (if required), City Forester (telephone: 240-314-8713 or 8710), and sediment control inspector. It is the developer's responsibility to coordinate and schedule the pre-construction meeting.

No clearing or grading shall begin before stress reduction measures as indicated on the approved Forest Conservation Plan (FCP) have been implemented, unless otherwise permitted by the City Forester. Appropriate measures may include:

- A. Root pruning
- B. Crown reduction or pruning
- C. Watering
- D. Fertilizing
- E. Vertical mulching

A Maryland Licensed Tree Expert and International Society of Arboriculture Certified Arborist must perform all stress-reduction measures. Documentation of stress reduction must be sent to the City Forester at 14625 Rothgeb Drive, Rockville, Maryland 20850.

Temporary tree protection devices shall be installed in accordance with the FCP prior to any construction activities. Tree protection fencing locations should be staked in the field prior to the preconstruction meeting or, if installed, be prepared to make field adjustments as determined by the City Forester.

Temporary protection devices shall be maintained and installed by the contractor for the duration of the construction project and must not be altered without prior approval of the City Forester. No equipment, trucks, materials, or debris may be stored within the tree protection fence areas during the entire construction project. No access to the fenced area will be permitted. Tree protection fencing shall not be removed without approval of the City Forester.

Long-term protection devices (see FCP) may include:

- A. Root aeration systems
- B. Retaining walls
- C. Raised sidewalks
- D. Tunneling of utilities
- E. Pier and panel walls
- F. Porous pavers

Long-term protection devices will be installed per the Forest Conservation Plan and attached details. Installation will occur at the appropriate time during the construction project.

Periodic inspections by the City Forester will occur during the construction project. Corrections and repairs to all tree protection devices, as determined by the City Forester, must be made in a timely fashion.

Planting:

Prior to installation of landscaping, afforestation or reforestation, the applicant must schedule an on-site preplanting meeting with the City Forester by calling 240-314-8713. Attendees shall include the contractor, landscaper, and City Forester. All details of the planting plans will be discussed including:

- Plant quality
 - o Proper form for species
 - o No co-dominant stems
 - o Crown must be at least 80% alive
 - o Sound graft union
 - o Girdling roots removed
- Proper planting
 - o No higher than 3 inches
 - o Exposed root flare
 - o Wire baskets/twine/burlap removed from top half of root ball
 - o All synthetic burlap or twine removed completely
 - o No hose and wire
 - o Hole twice the size of the root ball
 - o Mulched properly

Tree planting will not be permitted between the dates of June 1 and September 1 or when the ground is frozen. The City Forester must be notified when the planting is complete. The maintenance period will not begin until planting has been accepted.

Tree Protection Notes
Page three

Post-Construction:

An inspection shall be requested after construction is completed. Corrective measures may be required, which include the following:

- A. Removal and replacement of dead or dying trees
- B. Pruning of dead or declining limbs
- C. Soil aeration
- D. Fertilization
- E. Watering
- F. Wound repair
- G. Cleanup of retention areas

After inspection and completion of corrective measures have been undertaken, all temporary protection devices shall be removed from the site. No additional grading, sodding, or burial of debris may take place.

Revised January 2004

PLANTING NOTES

Description:

Planting shall consist of furnishing and installing plant material as shown on the plans. Care and replacement necessary to complete the work as specified shall be provided.

Materials:

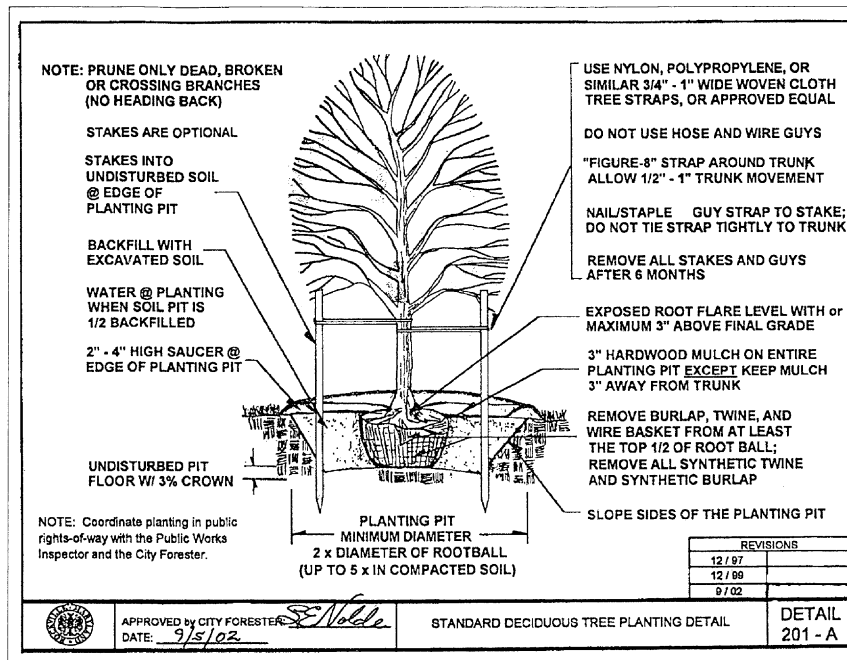
- A. Plant Material
- The installer shall make arrangements to insure a supply of the required material. This shall be done six (6) months prior to planting time to guarantee the supply.
 - All plant material shall conform to the current issues of the American Standard for nursery stock published by the American Association of Nurserymen, except where otherwise noted.
 - Plant materials must be selected from nurseries that have been inspected by appropriate state and federal agencies.
 - All plant material shall be obtained from mid Atlantic area sources, and approved by the owner or duly appointed representative prior to planting. No substitutions are permitted without the approval of the City Forester.
 - Plant installation shall comply with the standards in the latest edition of "Landscape Specifications Guidelines" as published by the Landscape Contractors Association, unless otherwise noted in detail drawings.
 - Plant material shall be provided with plant identification tags listing the latin and common names. The tags shall not be removed until after final certification by the landscape architect.

B. Planting:

- Planting will be installed no later than (1) year after completion of the construction project.
- Root Stock of the plant material shall be kept moist during transportation from the source to the job site and until planted. Plant materials left unplanted shall be protected from direct sun and weather and kept moist.
- Plants shall be installed only between the months of January and May or between September and December when ground is not frozen. Plants shall be guaranteed for a one-year period from the time of installation. Any replacements must be installed as above.
- The installer shall adequately water all plants promptly following installation to insure plant growth.
- Watering of the plant material shall take place at the end of each fifth day through September 1, if the soil is not moist.
- Contractor shall be responsible for making himself familiar with all the existing on-site conditions prior to submission of bid. The contractor is responsible for the location of all underground utilities, pipes, and structures. Contractor shall take sole responsibility for any cost incurred due to damage of said utilities. Call Miss Utility, 48 hours prior to digging (1-800-257-7777).
- All plants shall be placed so as not to obstruct drainage.
- Prune ONLY dead, broken, diseased, or crossed branches.
- Where field conditions exist which would adversely affect plant performance, or interfere with proper planting procedures, the contractor shall notify the Owner prior to installation of plant material.
- All trees are to be located a minimum distance of 5' from all utility boxes, 5' from a storm drain inlet or manhole, 10' from a fire hydrant, 15' from any public street light, and 5' from any driveway aprons.
- All mulch to be shredded hardwood bark to a depth of three inches in landscape areas.
- Contractor to confirm quantity of plant materials by plan count. Notify landscape architect of any discrepancy prior to planting.

C. Clean Up:

- Final Clean up shall be the responsibility of the installer and consist of removing all trash and materials incidental to the project and properly disposing of them off site. In addition the construction procedure shall not damage any areas of existing plants which are to remain.
- There shall be no open burning on-site.
- The contractor shall replace or repair at no cost to the owner, all site areas or surrounding items damaged by work of his contracts.
- During landscape work, store materials and equipment where directed. Keep pavement clean and work areas in an orderly condition.



TREE LIST

ID	COMMON NAME	SIZE	BOTANICAL NAME	CONDITION / REMARKS
1.	Honey Locust	19"	Gleditsia triacanthos	Good
2.	Honey Locust	15"	Gleditsia triacanthos	Good

Notes: Tree ID Numbers correspond to those assigned on the Natural Resource Inventory/Forest Stand Delineation Map. Trees less than 12" DBH are shown for informational purposes only.

SEQUENCE OF CONSTRUCTION

- Schedule a pre-construction meeting with the Contract Manager 240-314-8542, the City Inspector 240-314-8240, and the City Forester 240-314-8710. Call at least 48 hours prior to beginning construction. Contact Miss Utility at 1-800-257-7777 and the City Utilities Superintendent for water and sewer locations at 240-314-8570, 48 hours prior to any land disturbance.
- Install sediment control devices as necessary.
- Once the sediment control devices are installed, the permittee must obtain approval from the City Inspector and the City Forester before proceeding with any additional clearing, grubbing or grading.
- Begin demolition.
- Begin excavating.
- Begin building construction.
- Begin storm drain construction.
- Begin water & sewer and other utility construction.
- Begin curb & gutter and paving.
- As various areas are completed, place topsoil and sod/seed on grassed areas in conformance with these plans and the "Standard Erosion and Sediment Control Notes."
- Schedule a pre-planting meeting with the City Forester.
- Upon completion and site stabilization, and with the approval of the sediment control inspector, all sediment control structures shall be removed.
- Upon completion of planting, conduct final City inspection with City Forester and City Inspector.

General Planting Notes -- Quality Assurance

- All plant material shall be in accordance with the American Standard for Nursery Stock No. Z60.1-1986, by the American Association of Nurserymen, Inc.
- All plants shall be wholesome, healthy, vigorous, free from plant diseases, insect pests and their eggs, and shall have healthy, normal top and root systems. Plants shall be nursery-grown stock and freshly dug.
- No trees with multiple leaders will be accepted. No sheared evergreens will be accepted.
- Substitutions are not permitted without permission from the City Forester.

EXHIBIT "3"

LANDSCAPE & FOREST CONSERVATION PLAN
ROCKVILLE VOLUNTEER FIRE DEPARTMENT #3

CITY CENTER

LOT 5, PLAT-7956 & L-3559 F-446 (PENDING LOT-23)
4TH E.D. - CITY OF ROCKVILLE - MONTGOMERY COUNTY - MARYLAND



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Proj. Mgr. GSH	Designer GSH
Date 9-20-06	Scale AS NOTED
Project No. 01-189-31	Sheet 2 of 2