	SHEET INDEX				
No.	Description				
1	Title Sheet				
2	Preliminary Plan				
3	3 Schematic Grading, Landscape and Sediment Control Plan				
4	Forest Conservation Plan & Detalls				
5	Forest Conservation Plan & Details				
i					

	ROAD	CLASSIFICAT	ΙΠΝ
Road	Name	Classification	R/W
Maple	Ridge Dr	Public Access Place	40'

CENTERLINE ROAD CURVE DATA Stations Delta Radius Arc Length 6+68 - 9+12.49 50*55'41" 230.00' 204.44'				
	CENTERI	INE ROAD	CURVE	DATA
6+68 - 9+12.49 50*55*41" 230.00' 204.44'	Stations		Radius	Arc Length
	6+68 - 9+12.49	50'55'41"	230.00	204.44*

LEGEND:

DENOTES NON-TIDAL WETLAND

DENOTES STREAM

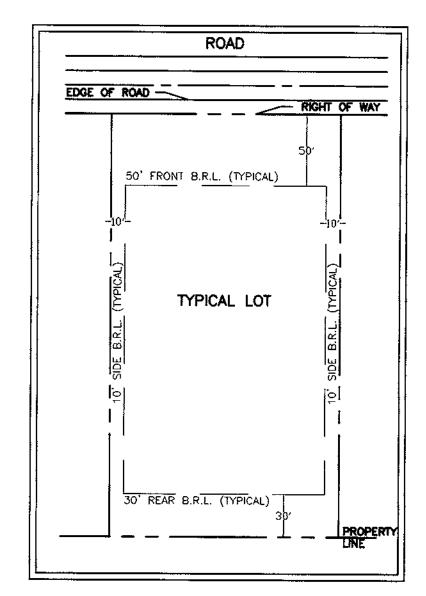
DENOTES PROPOSED SEPTIC FIELD

DENOTES PROPOSED WELL

DENOTES PROPOSED DWELLING

DENOTES PROPOSED STREET LIGHT

		· · · · · · · · · · · · · · · · · · ·	
CENTERL	INE ROAD	CURVE	DATA
Stations	Delta	Radius	Arc Length
+68 - 9+12.49	50'55'41"	230.00	204.44*

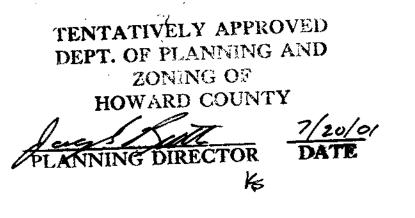


TYPICAL LOT AND BUILDING RESTRICTION LINES N.T.S.

NOTES

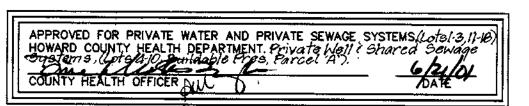
- I. ALL WELLS AND SEPTICS WITHIN 100' OF PROPERTY BOUNDARY HAVE BEEN SHOWN.
- 2. GROUNDWATER APPROPRIATIONS PERMIT SHALL BE OBTAINED PRIOR TO RECORD PLAT SIGNATURE.
- 3. ALL WELLS SHALL BE DRILLED PRIOR TO RECORD
- PLAT SIGNATURE.
- 4. FINAL APPROVAL OF THE SHARED SEPTIC SYSTEM IS CONTINGENT UPON CONCURRENT MDE, PUBLIC WORKS AND HEALTH DEPARTMENT REVIEW AND APPROVAL PRIOR TO RECORD PLAT APPROVAL. IN ADDITION, ENGINEER MUST DEMONSTATE THAT SUFFICIENT SEPTIC AREA HAS BEEN ESTABLISHED FOR THE INSTALLATION OF AN INITIAL SEPTIC SYSTEM AND TWO REPAIRS.

STREET LIGHT TABLE			
Street Name	Stations	Offset	Fixture
Maple Ridge Dr.	CL. STA. 0+35	18'R	100-Watt "Traditionaire" H.P.S. Vapor Fixture Post Top Fixture Mounted On A 14-Foot Black Fiberglass Pole
Maple Ridge Dr.	CL. STA. 5+40	18'R	100-Watt "Traditionaire" H.P.S. Vapor Fixture Post Top Fixture Mounted On A 14-Foot Black Fiberglass Pole





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OWNER AND DEVELOPER

JAMES W. WARD, JR. AND MEREDITH M. WARD 16307 CARRS MILL ROAD WOODBINE, MARYLAND 21797

PRELIMINARY PLAN FOR

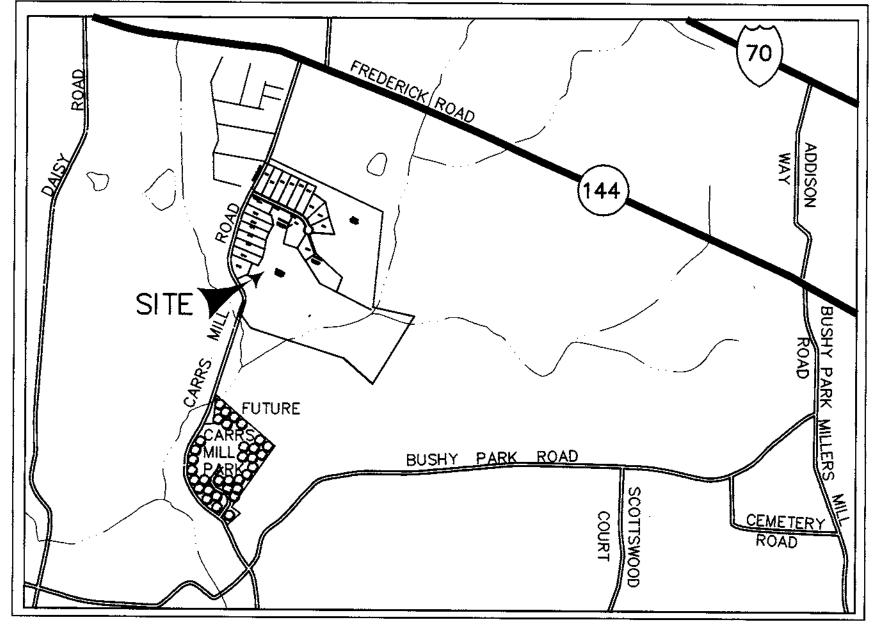
WARD PROPERTY

LOTS 1 THRU 18 AND

PRESERVATION PARCELS 'A' THRU 'C' (A RESUBDIVISION OF WARD PROPERTY LOTS 1-3 PLAT No. 9931)

ZONING "RC-DEO"

TAX MAP No. 8 GRIDS 14 & 20, PARCEL No. 51 & 378 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



VICINITY MAP SCALE: 1"=1200"

GENERAL NOTES:

- 1. SUBJECT PROPERTY ZONED 'RC-DED'.
- 2. TOTAL AREA OF PROPERTY = 84,66 ac.± a.> AREA OF PROPOSED BUILDABLE LOTS: 17.28 ac.±
 - b.) AREA OF ROAD RIGHT-OF-WAY: 0.94 QC. ±
- C.) TOTAL NO. OF BUILDABLE LOTS: 18 d.) TOTAL NO. OF BUILDABLE PRESERVATION PARCELS=
- e.) TOTAL AREA OF BUILDABLE PRESERVATION PARCEL= 18,10 act
- f.) TOTAL NO. OF NON-BUILDABLE PRESERVATION PARCELS= 2 9.> TOTAL AREA OF NON-BUILDABLE PRESERVATION PARCELS= 48.2 60C.
- 3. DENSITY CALCULATION:
 - a.) BASE DENSITY: 84.66 + 4.25 ac/UNIT = 19 UNITS b.> PROPOSED NO. OF UNITS = 19
- 4. THE PROJECT IS IN CONFORMANCE WITH THE LATEST HOWARD COUNTY STANDARDS UNLESS
- WAIVERS HAVE BEEN APPROVED. 5. PRIVATE WATER, SEWER AND A SHARED SEPTIC SYSTEM WILL BE USED WITHIN THE
- 6. THE WETLANDS AND FOREST STAND DELINEATION WAS PREPARED BY ECO-SCIENCE
- PROFESSIONALS INC. AND APPROVED UNDER S-00-06 ON 4/3/00. 7. A.P.F.O. TRAFFIC STUDY PREPARED BY "THE TRAFFIC GROUP INC." DATED 1-27-2000
- APPROVED UNDER S-00-06 DN 4/3/00. * 8. NO CLEARING, GRADING OR CONSTRUCTION IS PERMITTED WITHIN WETLAND OR STREAM
- BUFFERS AND FOREST CONSERVATION EASEMENTS, UNLESS, APPROVED BY THE DEPARTMENT OF PLANNING AND ZUNING OF HOWARD COUNTY, MARYLAND.
- THIS AREA DESIGNATES A PRIVATE SEWAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEVER DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWAGE EASEMENTS. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
- 10. THE LOTS HEREON COMPLY WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 11. THE EXISTING TOPOGRAPHY IS TAKEN FROM HOWARD COUNTY 1993 AERIAL TOPOGRAPHIC SURVEY. 12. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO INSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING (MINIMUM) REQUIREMENTS:
 - A.) VIDTH 12 FEET (14' FOR 2 TO 4 USERS) B.) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP
 - C.) GEOMETRY MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF
 - 45 FOOT TURNING RADIUS. D.) STRUCTURES (CULVERTS/BRIDGES) CAPABLE OF SUPPORTING 25 GROSS TONS (H25
 - E.) DRAINAGE ELEMENTS CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE.
 - F.> STRUCTURE CLEARANCES MINIMUM 12 FEET.
 - G.) MAINTANCE SUFFICIENT TO INSURE ALL WEATHER USE.
- 13. ALL AREAS ARE MORE OR LESS (±) 14. REFUSE COLLECTION, SNOW REMOVAL AND ROAD MAINTENANCE TO BE PROVIDED AT THE JUNCTION OF THE PIPE / FLAG STEM AND THE ROAD R/W AND NOT ONTO THE PIPE / FLAG STEM DRIVEWAY.
- 15. THE SKETCH PLAN WAS APPROVED ON APRIL 3, 2009.
- 16. PREVIOUS FILE NUMBER S-00-06, F 91-72, 17. STREET TREES AND LANDSCAPING TREES SHALL BE SHOWN AT FINAL PLAN STAGE IN ACCURDANCE
- WITH SECT. 16.124 OF THE SUBDIVISION REGULATIONS AND THE LANDSCAPE MANUAL 18. THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC
- CONTROL WHICH IS BASED ON THE MARYLAND STATE PLANE COORDINATE SYSTEM. 19. A DETENTION STORM WATER MANAGEMENT FACILITY IS PROVIDED FOR THIS SITE. THE POND
- IS A PUBLIC FACILITY TO BE DWNED AND MAINTAINED BY HOWARD COUNTY.
- 20. THERE ARE NO EXISTING UTILITIES ON SITE. THE SITE DOES NOT CONNECT TO ANY EXISTING 21. IN ACCURDANCE WITH SECTION 16.115.(d) OF THE SUBDIVISION AND LAND DEVELOPMENT
- REGULATIONS THIS DEVELOPMENT HAS A NON-CRITICAL FLOODPLAIN AND THEREFORE IS EXEMPT FROM DELINEATING THE FLOODPLAIN ON THE PRESERVATION PARCEL.
- 22. IN ACCURDANCE WITH SECTION 16,116,(4)(4) OF THE SUBDIVISION AND LAND DEVELOPMENT REGULATIONS THIS DEVELOPMENT IS EXEMPT FROM DELINEATING WETLANDS ON THE PRESERVATION PARCEL. THE WETLANDS THAT ARE SHOWN ON THIS PLAN ARE SHOWN FOR
- IMFORMATION PURPOSES ONLY. 23. THERE ARE NO CEMETARIES OR HISTORIC STRUCTURES WHICH EXIST ON THE PROPERTY.
- 24. FOREST CONSERVATION REQUIREMENTS PER SECTION 16.1202 OF THE HOWARD COUNTY CODE AND THE FOREST CONSERVATION MANUAL FOR THIS SUBDIVISION WILL BE FULLFILLED BY 3.7 ACRES OF AFFORESTATION PLANTING OBLIGATION FOR A TOTAL EASEMENT AREA OF 3.7 ACRES.
- 25. EASEMENT HOLDERS FOR PRESERVATION PARCELS 'A' AND 'C' ARE HOWARD COUNTY AND H.O.A. EASEMENT HOLDER FOR PRESERVATION PARCEL 'B' IS HOWARD COUNTY.
- 26. STORMWATER MANAGEMENT WILL BE PROVIDED IN ACCORDANCE WITH THE NEW "7000 MD S.W.M. STANDARDS" AT FINAL PLAN STAGE

PRELIMINARY PLAN WARD PROPERTY

* (SEE GENERAL NOTE 8) 1. IN ACCORDANCE WITH COMAR TITLE 08, SUBTITLE 05, CHAPTER 04, AGRICULTURAL ACTIVITIES IN WETLANDS ARE EXEMPT FROM PERMIT REQUIREMENTS, ALSO, A PERMIT FROM THE ARMY CORPS OF ENGINEERS IS NOT REQUIRED FOR DISTURBANCE IN WETLANDS THAT ARE ASSOCIATED WITH AGRICULTURAL ACTIVITIES.

SCALE: 1'' = 100

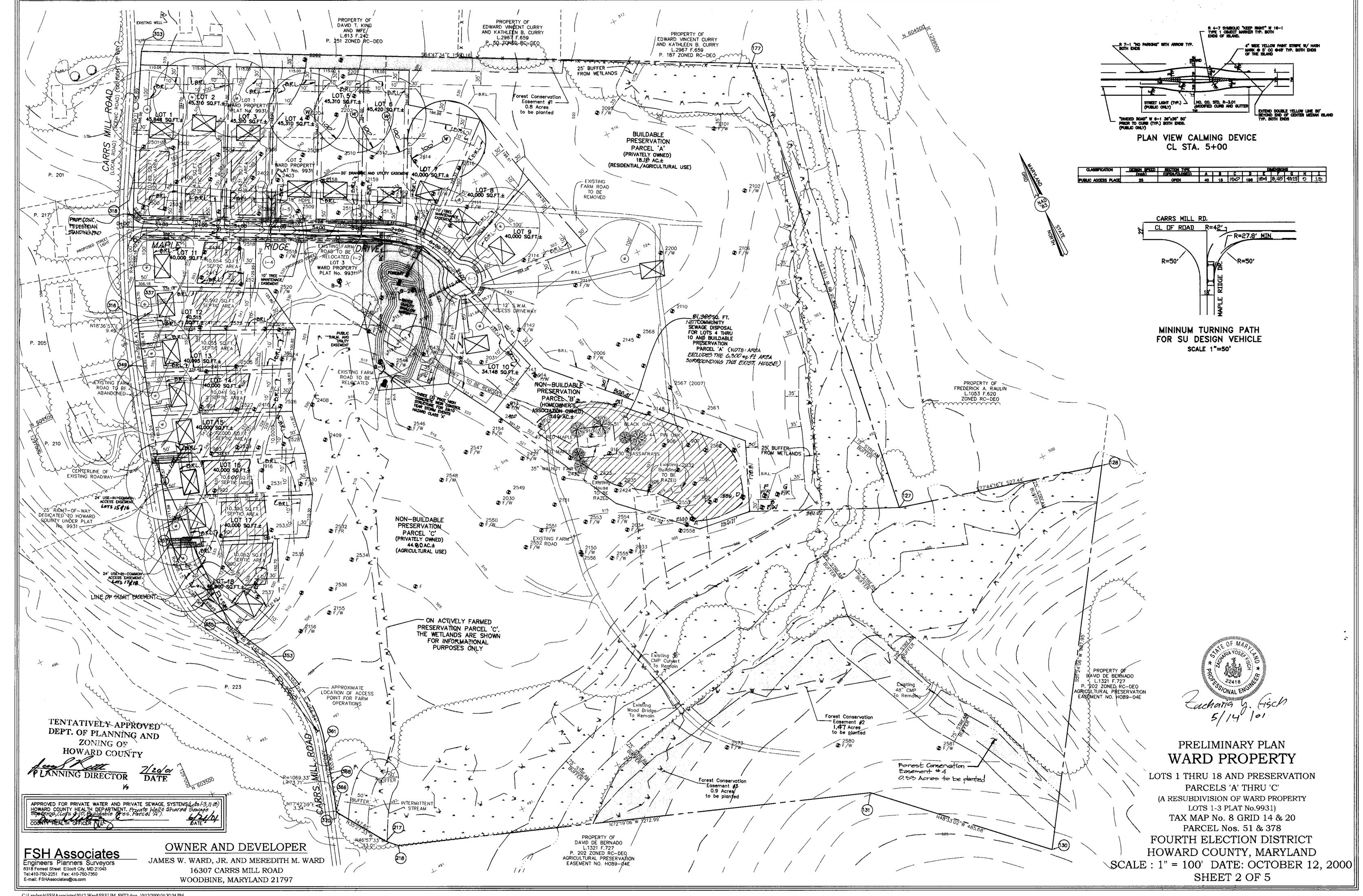
NOTES:

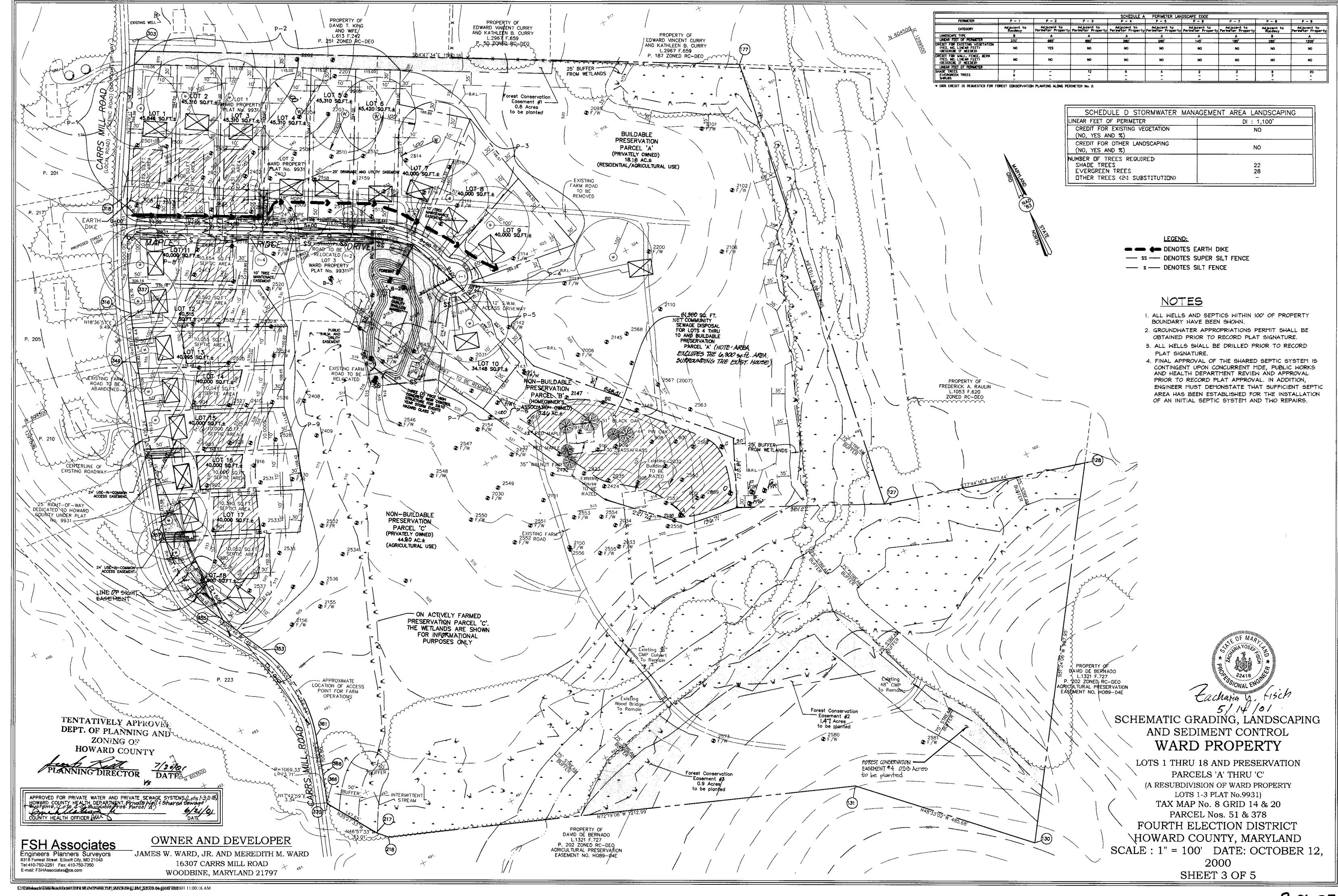
PARCELS 'A' THRU 'C' (A RESUBDIVISION OF WARD PROPERTY LOTS 1-3 PLAT No.9931) TAX MAP No. 8 GRID 14 & 20 PARCEL Nos. 51 & 378 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: OCTOBER 12, 2000

LOTS 1 THRU 18 AND PRESERVATION

SHEET 1 OF 5

COORDINATE TABLE







Planting Schedule

Afforestation Area #1 (0.3 acres)

Ota.	Station		
20	Acer subrum - Red maple	2" cel	•
28	Frazigus ponasylvanica - Green ask	2" cal	•
20	Liriodondron teligifore - Poplar	2" cal.	•
20	Pistanus coeldentalis - Sycamore	2" cal	•
Affor	estation Area #2 (1.5 acrus)		
Ott.	Smeciae	Sine	Special
85	Aser rubrum - Red maple	2-3 whip	**
95	Frankous pennsylvanies - Green ash	2-3' whip	**
45	Liriodendron tulipillura - Popiar	2-3' whip	**#
55	Nyses sylvatics - Block guns	2-3' whip	##
65	Platnum occidentalle - Sycamore	2-3' whip	**
70	Quereus palustris - Pin oak	2-3' whip	**
55	Cornes amouses - Sifty degwood	2-3' b.L	**
55	Vibersum dentatum - Arrewweed	2-3°b.t.	**
Affor	estation Area #3 (0.9 acres)		
Otv.	Smeries	Sine	Special
65	Acer ruhrum - Red megle	2-3 whip	**
75	Frankus pennsylvanica - Green ask	2-3' whip	**
26	Liriodendren tullpillera - Puplar	2-31 white	金油製
20	Nysse sylvatica - Black gum	2-3' whip	常业
30	Piatanus occidentalis - Sycamore	2-3' whip	##
40	Quorem palustris - Pin oak	2-3' whip	*4
32	Сагани виновиния - Stiky degwood	2-3' h.L	**
32	Viburgum doutstam - Arrowwood	2-3'b.t.	44
Affor	estation Area #4 (0.5 acres)		
Oty.	Species	Size	Specing
25	Acor rubrum - Rod maple	2-3 whip	**
30	Fraxinus pennsylvanica - Green ash	2-3' whip	ėx
20	Liriodendren tulipthes - Poplar	2-3' whip	** #
15	Nysen sylvation - Black gum	2-3' whip	**
25	Platanus occidentalis - Sycamore	2-3' whip	**
25	Quereus palautris - Pin oak	2-3' whip	**
28	Cornes amonique - Milky degwood	2-3' b.L	**
20	Viburnum dentatum - Arrowwood	2-3'b.t.	**

Planting Notes:

1. Multiflora rose control must be performed as part of this planting plan.

2. Bareroot plant material may be used to offset the cost of multiflora rose removal and maintenance. If bareroot material is used it must be planted in March-April and an anti-desiccant gel should be utilized to protect root systems. Container grown stock may be used.

3. Plants should be flagged to aid on location during maintenance. Plantings should also be planted in grid pattern to facilitate maintenance and removal of invasive and exotic species.

Multiflora Rose Control Note

Prior to planting all multiflora rose within planting areas shall be removed. Removal of the rose may be performed with mowing and herbicide treatments. Physical removal of all top growth following by a periodic herbicide treatment of stump sprouts is recommended. Native tree and shrub species occurring within the rose thickets should be retained wherever possible. Herbicides treatments shall occur on 2 month intervals during the first growing season and once each in the spring and fall for subsequent years. Herbicide used shall be made specifically to address woody plant material and shall be applied as per manufacturers specifications. Care should be taken not to spray planted trees or naturally occurring native tree/shrub seedlings. It is recommended that initiation of rose removal begin at least six months prior to planting.

Planting/Soil Specifications

1. Planting of nursery stock shall take place between March 15th and April 30th or September 15th • November 15th .

2. A twelve (12) inch layer of topsoil shall be spread over all forestation areas impacted by site grading to assure a suitable planting area. Disturbed areas shall be seeded and stabilized as per general construction plan for project. Planting areas not impacted by site grading shall have no additional topsoil installed.

3. All bareroot planting stock shall have their root systems dipped into an anti-desiccant gel prior to planting. 4. Plants shall be installed so that the top of root mass is level with the top of existing grade.

Backfill in the planting pits shall consist of 3 parts existing soil to 1 part pine fines or 5. Fertilizer shall consist of Agriform 22-8-2, or equivalent, applied as per manufacturer's

specifications. 6. A two (2) inch layer of hardwood mulch shall be placed over the root area of all plantings. 7. Plant material shall be transported to the site in a tarped or covered truck. Plants shall be kept moist prior to planting.

8. All non-organic debris associated with the planting operation shall be removed from the site by the contractor.

Sequence of Construction

1. Sediment control and tree protection devices shall be installed in accordance with general construction plan for site. Site shall be graded in accordance with general construction plans. 2. Proposed forestation areas impacted by site grading shall be topsoiled and stabilized as per

#2 of Planting/Soil Specifications for project. 3. Plants shall be installed as per Plant Schedule and the Planting/Soil Specifications for the

4. Upon completion of the planting, signage shall be installed as per the Forest Protection Devices shown on the Forest Conservation Plan. 5. Plantings shall be maintained and guaranteed in accordance with the Maintenance and

Guarantee requirements for project. Maintenance of Plantings

1. Maintenance of plantings shall last for a period of 26 months.

2. All plant material shall be watered twice a month during the 1st growing season. Watering may be more or less frequent depending on weather conditions. During second growing season, once a month during May-September, if needed.

3. Invasive exotics and noxious weeds will be removed from forestation areas. Old field successional species will be retained. 4. Plants will be examined a minimum two times during the growing season for serious plant

pests and diseases. Serious problems will be treated with the appropriate agent. 5. Dead branches will be pruned from plantings.

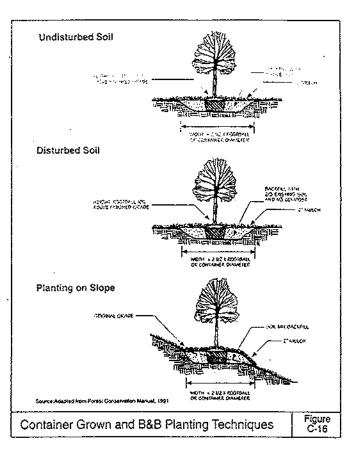
Guarantee Requirements

1. A 75 percent survival rate of forestation plantings will be required at the end of the 24 month maintenance period. All plant material below the 75 percent threshold will be replaced at the beginning of the next growing season.

Surety for Forestation

1. The developer shall post a surety (bond, letter of credit) to ensure that forestation plantings are completed. Upon acceptance of the plantings by the County, the bond shall be released.

Forest Conservation Easement Unauthorized disturbances of vegetation is prohibited. Violators are subject to fines as imposed by the Howard County Forest Conservation Act of 1992 Trees for Your Future



FCP NOTES

- 1. Any Forest Conservation Easement (FCE) area shown hereon is subject to protective covenants which may be found in the Land Records of Howard County which restrict the disturbance and use of these areas.
- The forest conservation easements have been established to fulfill the requirements of Section 16.1200 of the Howard County Code, Forest Conservation Act. No clearing, grading, or construction is permitted within the forest conservation easements, however, forest management practices as defined in the Deed of Forest Conservation Easement are allowed.
- 3. Forested areas occurring outside of the FCE shall not be considered part of the FCE and shall not be subject to protective land covenants.
- Limits of disturbance shall be restricted to areas outside the limit of temporary fencing or the FCE boundary, whichever is greater.
- 5. There shall be no clearing, grading, construction or disturbance of vegetation in the Forest Conservation Easement, except as permitted by Howard County
- 6. No stockpiles, parking areas, equipment cleaning areas, etc. shall occur within areas designated as Forest Conservation Easements.
- Temporary fencing shall be used to protect forest resources during construction. The fencing shall be placed along all FCE boundaries which occur within 15 feet of the proposed limits of disturbance.
- Permanent signage shall be placed 50-100' apart along the boundaries of all areas included in Forest Conservation Easements.

Forest Conservation Worksheet

PROJECT NAME: Ward Property DATE: 10/10/00

FOREST DATA	<u> </u>
	Acres
oss Area:	84.7
servation Parcels:	66.4
t Tract Area (NTA):	18.3
sting Forest (NTA):	0.0
orestation Threshold:	3.7
orestation Required:	3.7
orestation Proposed:	3.7

BASIC SITE DATA	ACRES
Gross Site Area: Area within 100 year floodplain:	84.7
Area within agricultural use or preservation parcel:	66.4
Area within overhead transmission lines:	18.3
Net Tract Area (NTA): Land Use Category: RC	
INFORMATION FOR CALCULATIONS	
Net Tract Area (NTA): Forest conservation threshold (25% x NTA): Afforestation threshold (25% x NTA):	18.3 _ 4.6 _ 3.7
Existing forest on NTA: Existing forest above conservation threshold: Break even point (if applicable):	
Forest to be cleared: Forest to be retained:	

AFFORESTATION CALCULATIONS

No forest clearing: Afforestation Threshold - Existing Forest

TENTATIVELY APPROVED **DEPT. OF PLANNING AND** ZONING OF HOWARD COUNTY 7/20/01 DATE

OWNER AND DEVELOPER

JAMES W. WARD, JR. AND MEREDITH M. WARD 16307 CARRS MILL ROAD WOODBINE, MARYLAND 21797

PRELIMINARY FOREST CONSERVATION PLAN WARD PROPERTY

LOTS 1 THRU 18 AND PRESERVATION PARCELS 'A' THRU 'C' (A RESUBDIVISION OF WARD PROPERTY LOTS 1-3 PLAT No.9931) TAX MAP No. 8 GRID 14 & 20 PARCEL Nos. 51 & 378 FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND DATE: OCTOBER 12, 2000 SHEET 5 OF 5

FSH Associates 8318 Forrest Street Ellicott City, MD 21043

Eco-Science Professionals, Inc.

MD DNR Qualified Professional USACOE Wetland Delineator