GENERAL NOTES

- . Subject property zoned RC-DEO per 02/02/04 Comprehensive Zoning Plan 2. Private water and sewer will be used within this site. Lots I thru 6 and 15 thru 19 will
- utilize a shared septic system.
- 3. Total area of property: 42.885 ac.±
- 4. Area of proposed public R/W: 2.116 ac.±
- 5. Number of proposed buildable lots: 19 Area of proposed buildable lots: 19.182 ac.±
- 6. Number of proposed non-buildable preservation parcels: 4 Area of proposed non-buildable preservation parcels: 21.59 ac.±
- . Density calculations: a.) Total area of property = 42.885 Ac.±
- b.) Area of steep slopes = 2.060 Ac.± c.) Net Area of property = 40.825 Ac.±
- d.) Total number of Units based on own density:
- 42.885 Ac./4.25 Ac.per unit=10.1 units therefore 10 units.
- e.) Maximum number of units allowed utilizing the DEO option: 40.825 Ac. / 2 Acres per Unit = 20 Units
- f.) Number of DEO Units required = 19-10 = 9 DEO Units 8. The lots shown hereon comply with the minimum ownership, width and lot
- This area designates a private sewage easement of at least 10,000 square feet (or 10,000 square feet per lot for shared drain fields associated with a shared sewage disposal facility) as required by the Maryland State Department of the Environment for individual sewage disposal (COMAR 26.04.03). 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 adjustments to the private sewage easement.

 10. All wells and septic fields within 100' of property's boundary have been shown.
- All percolation test holes and their elevations have been field located by FSH Associates
- 12. On-site topography based on a Field Run Topographic Survey prepared by FSH Associates dated 1/12/04. Off-site and non-critical topography based on Howard County 1998 Aerial Topographic Surveys with five foot contours.
- 13. All wells to be drilled prior to submittal of final plat for signature. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered 'government delay' if the well drilling holds up the Health Department signature of the record plat.
- 14. Groundwater appropriations permit #HO20056007(01)
- 15. A.P.F.O. traffic study prepared by Street Traffic Studies on September 24, 2004. 16. Wetlands Analysis prepared by Exploration Research Inc.
- 17. The project is not within the metropolitan district. 18. The project is in conformance with the latest Howard County Standards unless
- waivers have been approved. 19. The coordinates shown hereon are based upon the Howard County Geodetic Control which is based on the Maryland State Plane Coordinate system. Howard County
- monument numbers 0019 and 0040 were used for this project
- 20. S.W.M. for cpv and way is provided in a Micro Pool Extended Detention facility and grass channels. Rev will be provided in grass swales. The facility will be privately owned with joint maintenance by the H.O.A. and Howard County.
- 21. No clearing, grading or construction is permitted within wetlands, streams or their required buffers.

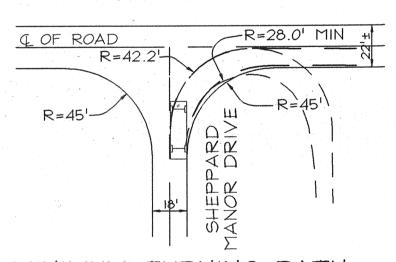
 The disturbance of the wetlands and stream buffers for breaching the existing pond is approved under section 16.116(c).

 22. The geotechnical report for this project was prepared by Herbst, Benson and
- Associates dated August, 2004. 23. Street trees along Road 'A' and perimeter landscaping will be shown at Final

- 24. For flag or pipestem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag or pipestem and road right-of-way line.

 25. Forest Conservation for this project is met partially by retention of 11.50 Ac of existing forest on Preservation Parcel 'A' and 'C', and 0.85 Ac of planting on Parcel 'C'. Preliminary surety estimate: \$ 118,701.00.
- 26. Preservation parcels 'A' & 'C' shall be privately owned and maintained with Howard County and Homeowners Association, as Easement Holders. Preservation parcels 'B' and 'D' shall be Homeowners Association owned and maintained with Howard County as easement holders.
- 27. All existing structures on site shall be removed prior to record plat signature and recordation.
- 28. All wells to be field located after being drilled by a licensed surveyor prior to
- 29. A groundwater discharge permit must be issued by the Maryland Department of the Environment prior to final approval of the shared septic system.
- 30. Sheppard Lane is a scenic road. The scenic road exhibit was approved by comment dated December 23, 2004.
- 31. There are no Historic structures on-site.
- 32. There are no cemetaries on-site.
- 33. Lots 1 thru 6 and 15 thru 19 shall be served by the shared septic system.

SHEPPARD LANE



MINIMUM TURNING PATH FOR SU DESIGN VEHICLE SCALE 1"=50'

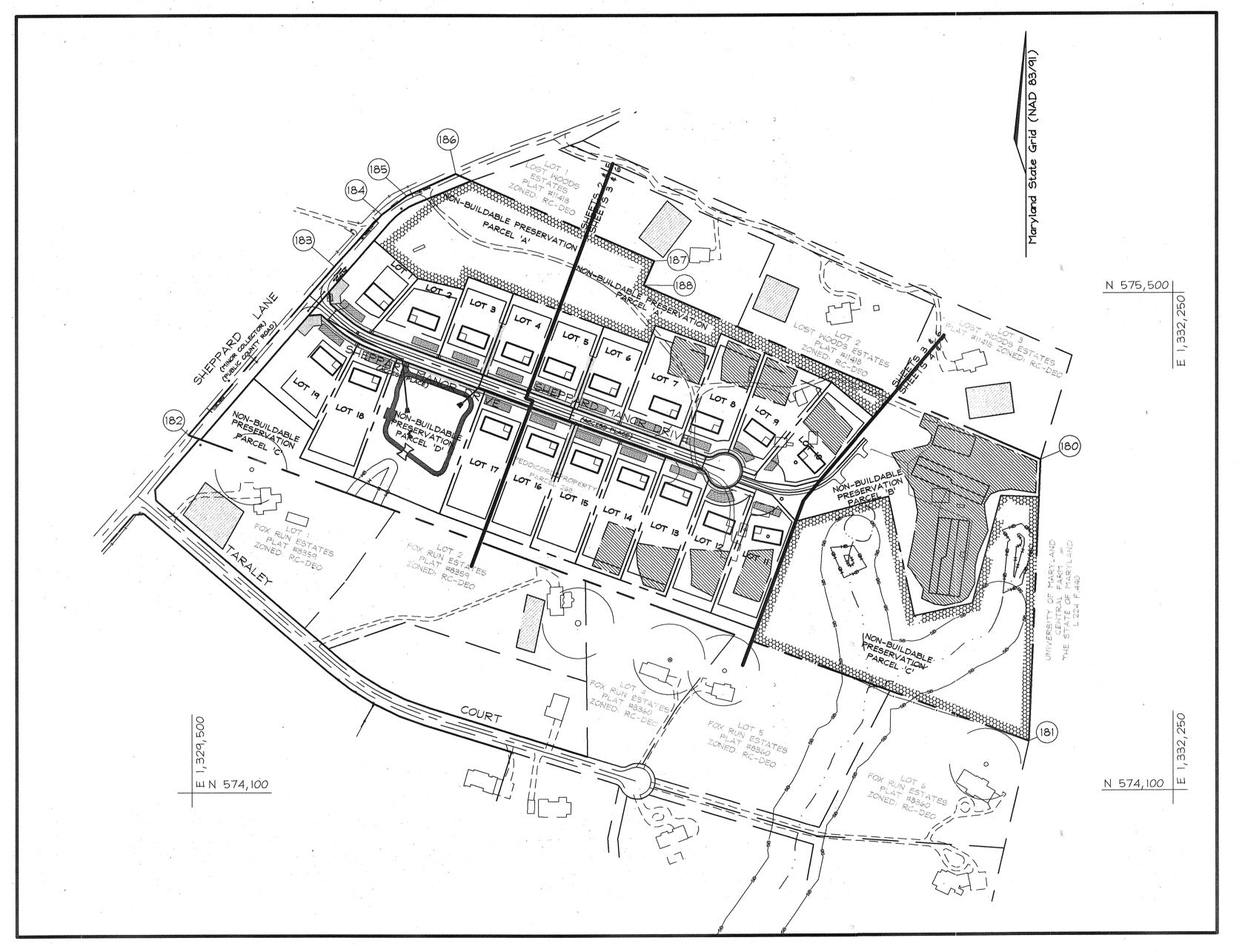
ROAD (CLASSIFICATION	
ROAD NAME	CLASSIFICATION	R/W
Road 'A'	Public Access Place	40'

	CENTE	RLINE	ROAD	CURVE	DA	TA	
CURVE No.	RADIUS	LENGTH	DELTA	TANGENT		CHORD BEAR	ING
CI	300.00	108.33	20°41'23"	54.76	N	159°25'20"W 10	7.74

area as required by the Maryland State Department of the Environment.

PRELIMINARY EQUIVALENT SKETCH PLAN SHEPPARD MANOR

LOTS 1 THRU 19 AND NON-BUILDABLE PRESERVATION PARCELS 'A', 'B', 'C' HOWARD COUNTY, MARYLAND



LOCATION MAP SCALE: 1"=200'

LEGEND

Existing Contour Proposed Contour Direction of Flow

+82⁵³

mmmm

Existing Spot Elevation Proposed Spot Elevation

Existing Trees

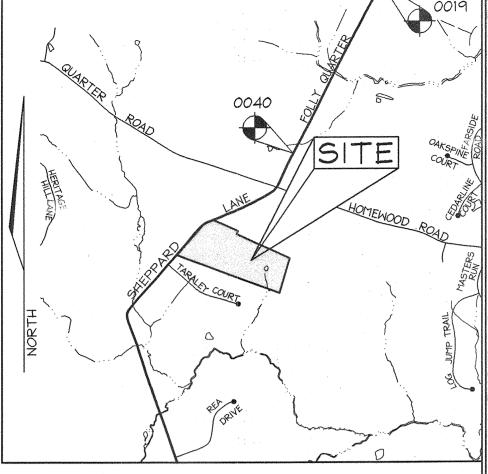
Proposed Septic Easement Existing Septic Easement

15-24.99% Slopes 25-50% Slopes

Wetlands

Use-In_Common Access Easement

Existing Perc Test(Passed) F618 Existing Perc Test(Failed)



VICINITY MAP SCALE:1=2000'

BENCHMARKS

N 176,927.0394 E 406,505.1110 El.: 117.6061 (meters) N 580,468.128 E 1,333,675.518 E1.: 385.846 (feet) N 175,952.4260 E 405,995.1970 E1: 111.3465 (meters) N 577,270.584 E 1,332,002.575 E1: 365.309 (feet)

SHEET INDEX	
DESCRIPTION	SHEET No.
Cover Sheet	1 of 11
Preliminary Plan	2 of 11
Preliminary Plan	3 of 11
Preliminary Plan	4 of 11
Preliminary Grading, Landscaping, Sediment and Erosion Control and Soils Plan	5 of 11
Preliminary Grading, Landscaping, Sediment and Erosion Control and Soils Plan	6 of 11
Preliminary Grading, Landscaping, Sediment and Erosion Control and Soils Plan	7 of 11
Preliminary Forest Conservation Plan	8 of 11
Preliminary Forest Conservation Plan	9 of 11
Preliminary Forest Conservation Plan	10 of 11
Preliminary Forest Conservation Notes and Details	11 of 11

MINIM	UM LOT	SIZE	HART
LOT NUMBER	GROSS AREA (sf)	PIPESTEM AREA (sf)	MINIMUM LOT SIZE
10	47,182±	267±	46,915±
11 .	48,708±	439±	48,269±

U.S. EQUIVALENT COORDINATE TABLE				
POINT	NORTHING	EASTING		
180	575,031.8070	1,331,879.1180		
181	574,239.8160	1,331,846.0630		
182	575,107.5480	1,329,491.6380		
183	575,582. <i>0</i> 73 <i>0</i>	1,329,900.7110		
184	575,728.0700	1,330,033.3260		
185	575,781.0180	1,330,102.9060		
186	575,842.9280	1,330,240.6460		
187	575,597.1480	1,330,797.2270		
188	575,528.7570	1,330,767.1090		

TENTATIVELY APPROVED DEPT. OF PLANNING AND ZONING OF HOWARD COUNTY

WILLIAMSBURG GROUP LLC 5485 Harpers Farm Road #200 Columbia, Maryland 21044-3834

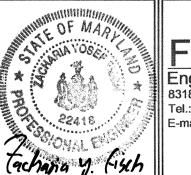
Telephone: (410) 997-8800 Fax: (410) 997-4358

OWNER David C. Peddicord 4485 Sheppard Lane Ellicott City, Maryland 21042

COVER SHEET

SHEPPARD MANOR LOTS 1 THRU 19 AND NON-BUILDABLE

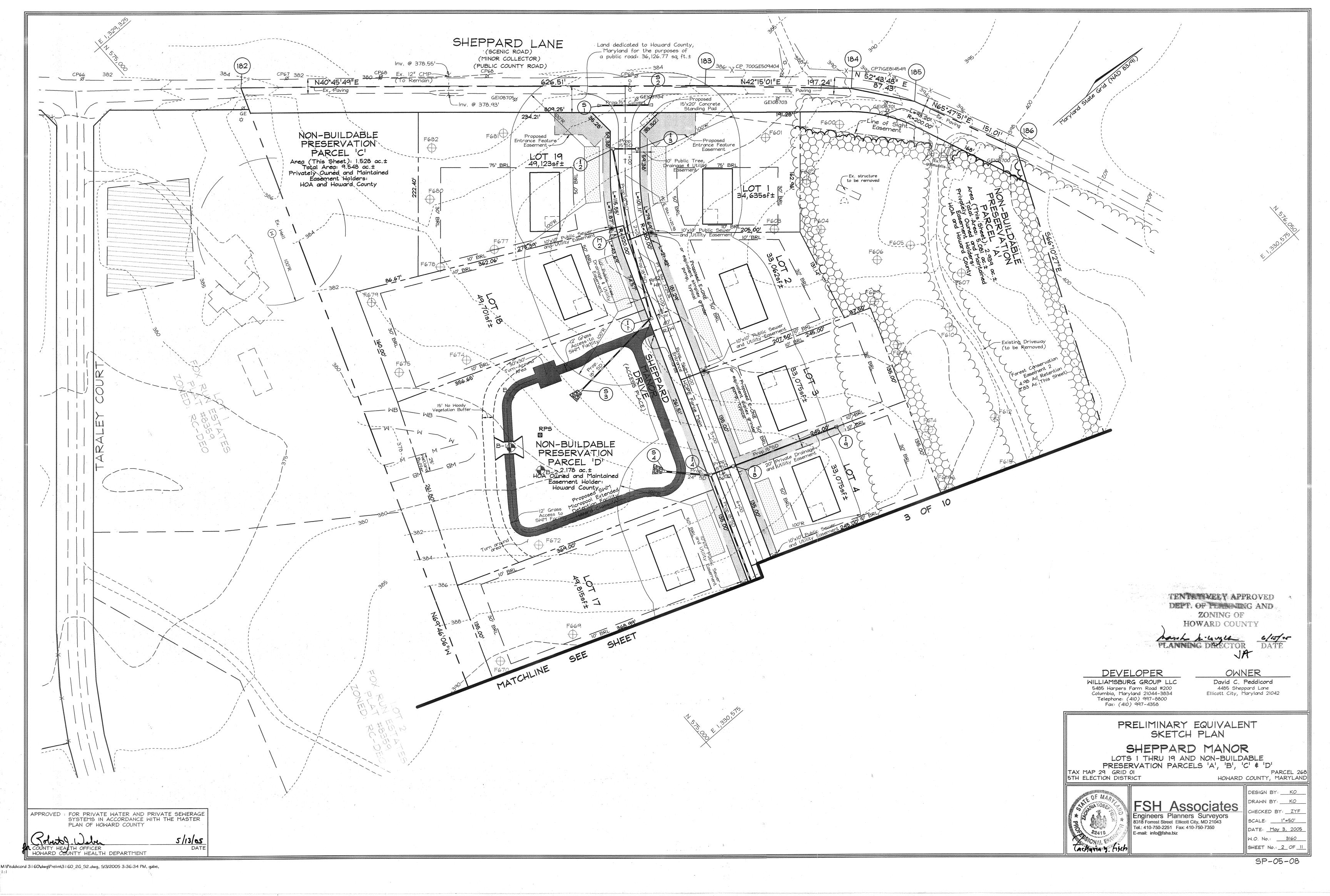
PRESERVATION PARCELS 'A', 'B', 'C' & 'D' TAX MAP 29 GRID 01 115TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND



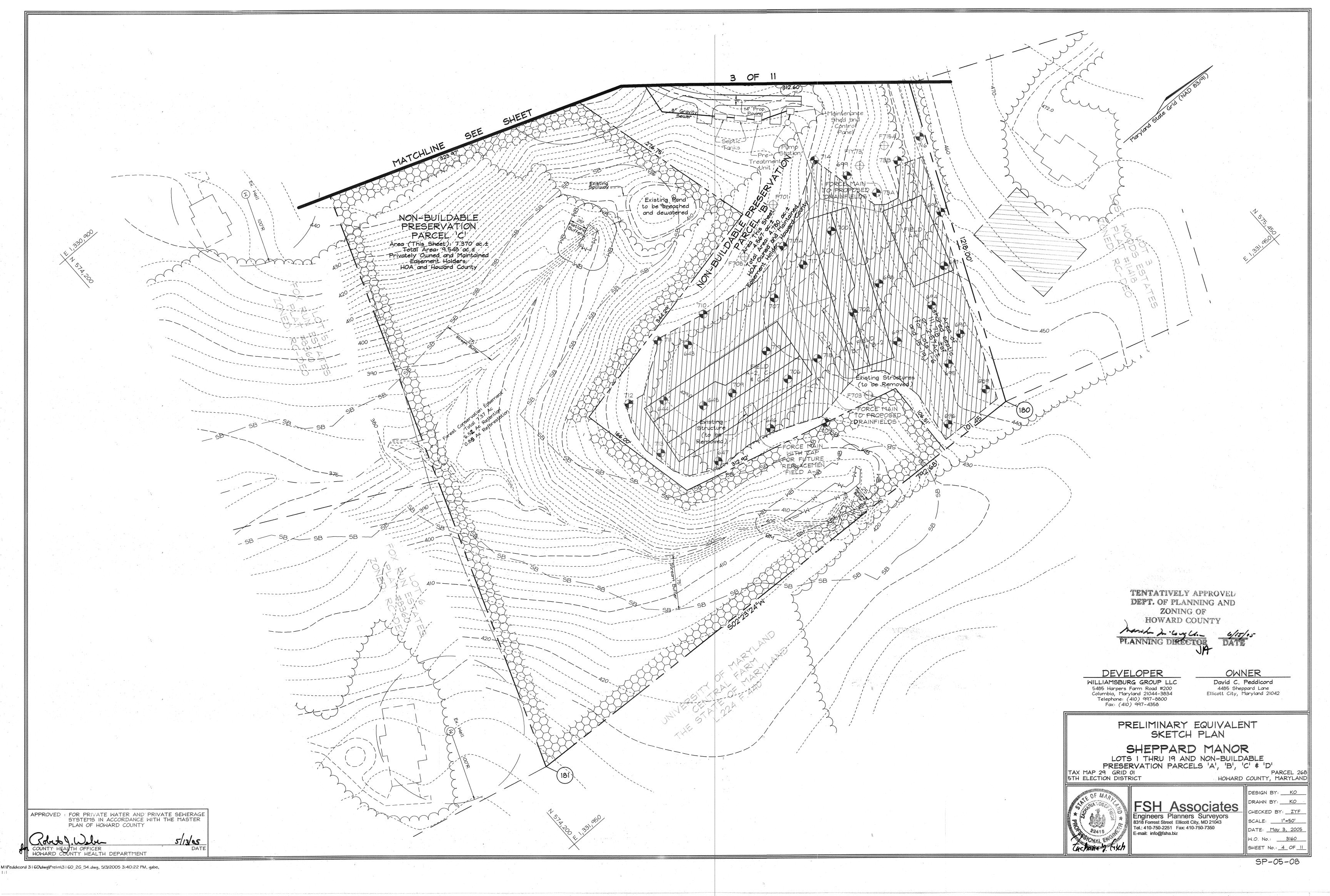
Engineers Planners Surveyors 8318 Forrest Street Ellicott City, MD 21043 Tel.: 410-750-2251 Fax: 410-750-7350 E-mail: info@fsha.biz

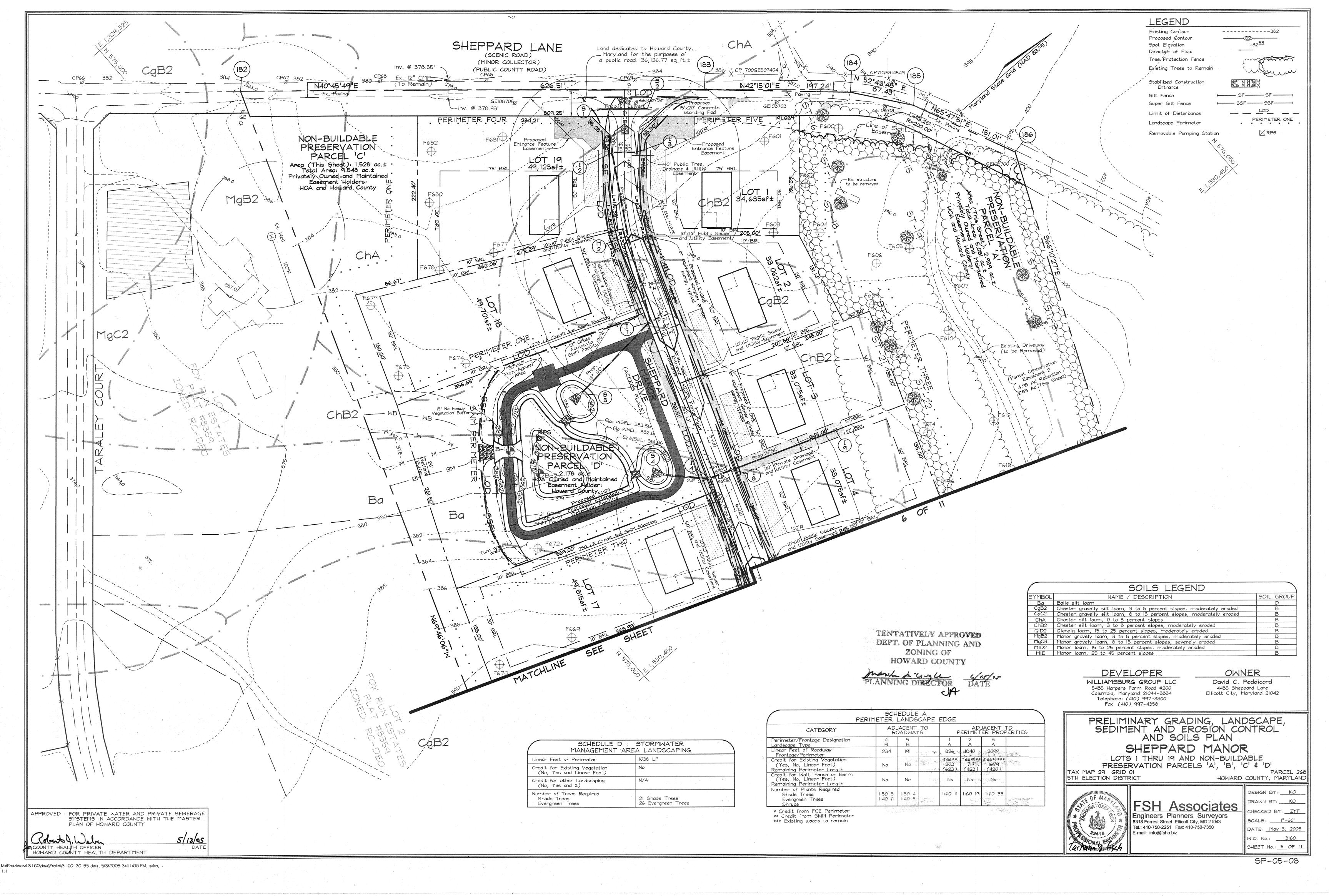
DESIGN BY: KO DRAWN BY: KO CHECKED BY: ZYF SCALE: As Shown DATE: May 3, 2005 W.O. No.: 3160 SHEET No .: 1 OF 11

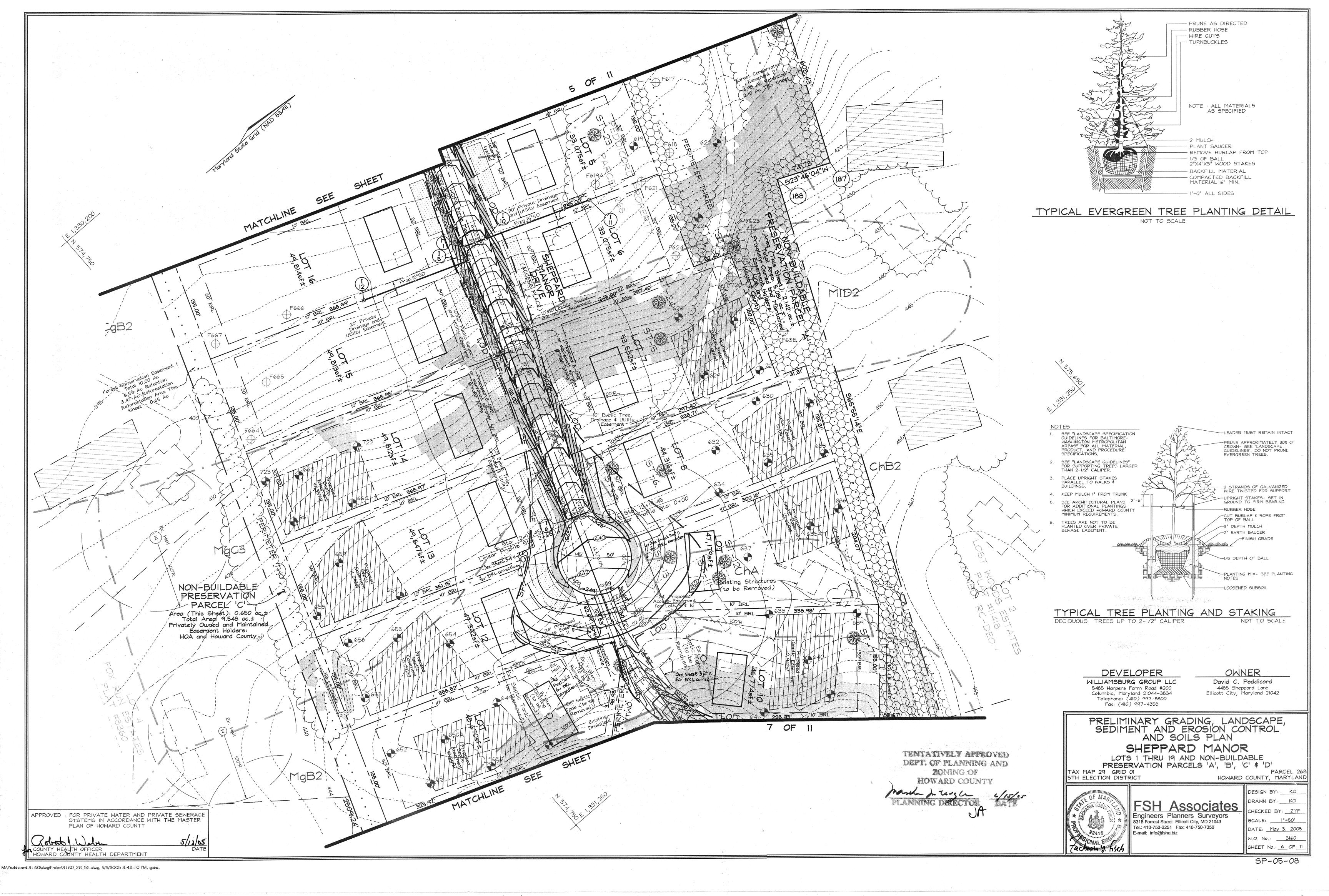
APPROVED : FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN ACCORDANCE WITH THE MASTER PLAN OF HOWARD COUNTY HOWARD COUNTY HEALTH DEPARTMENT



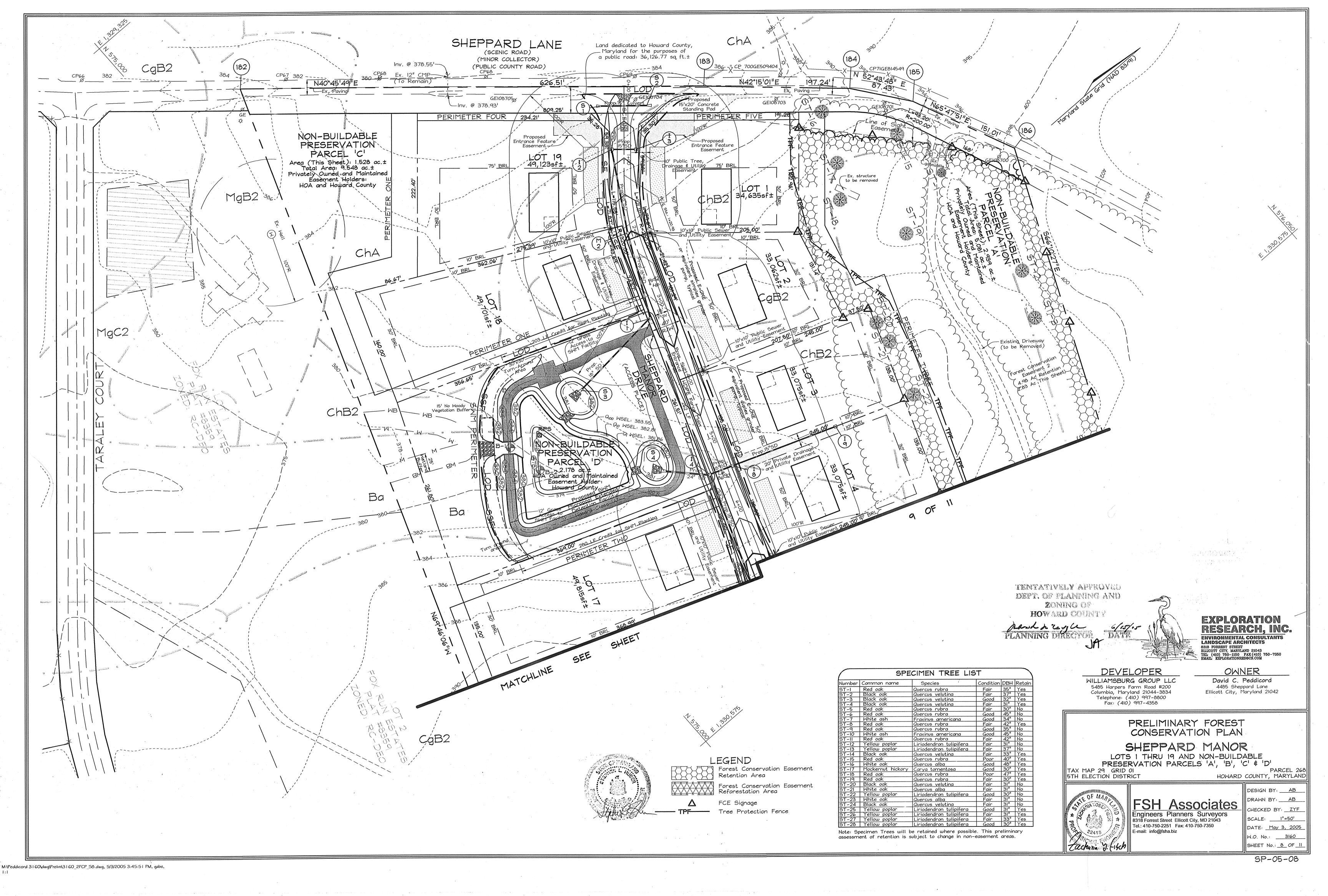


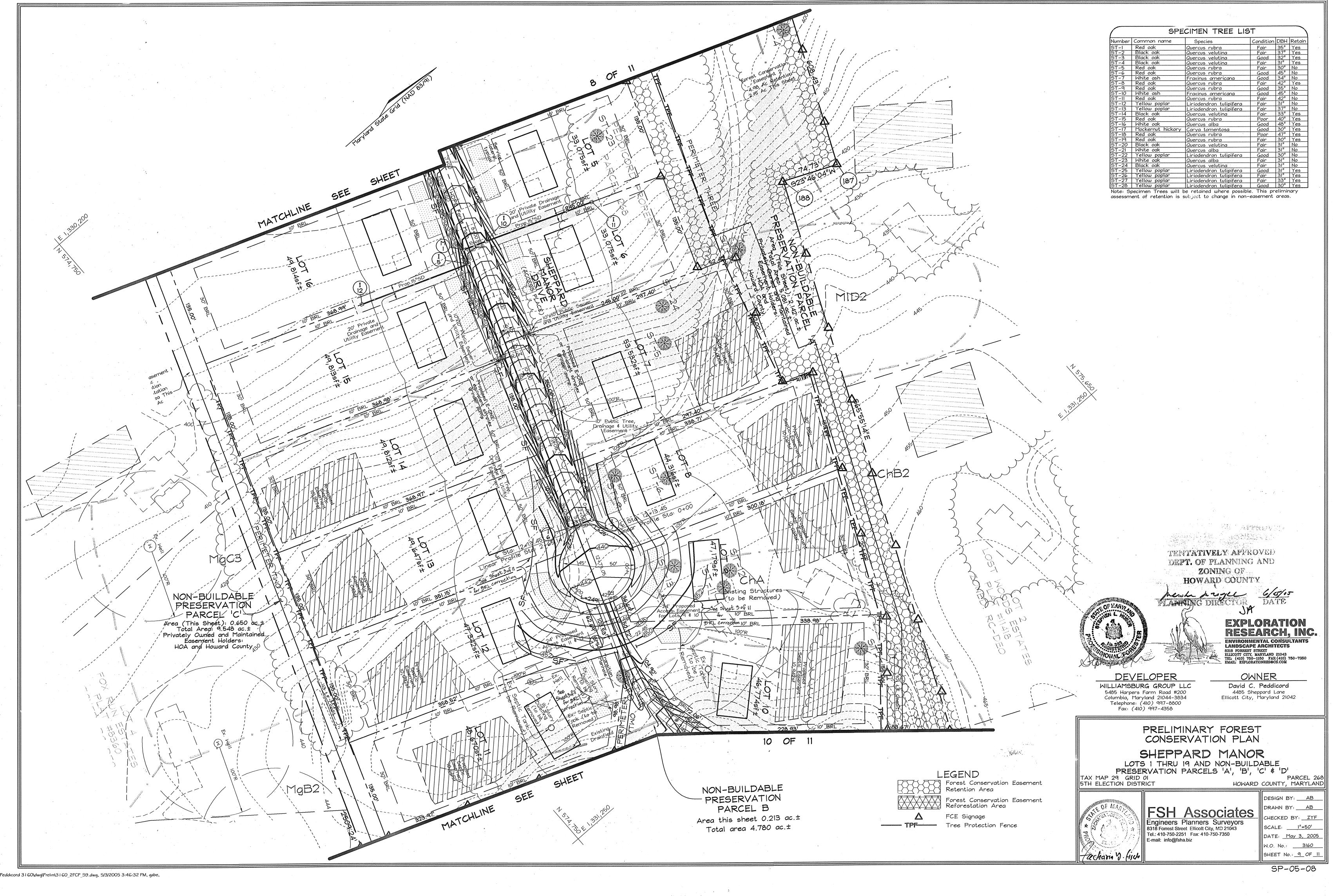


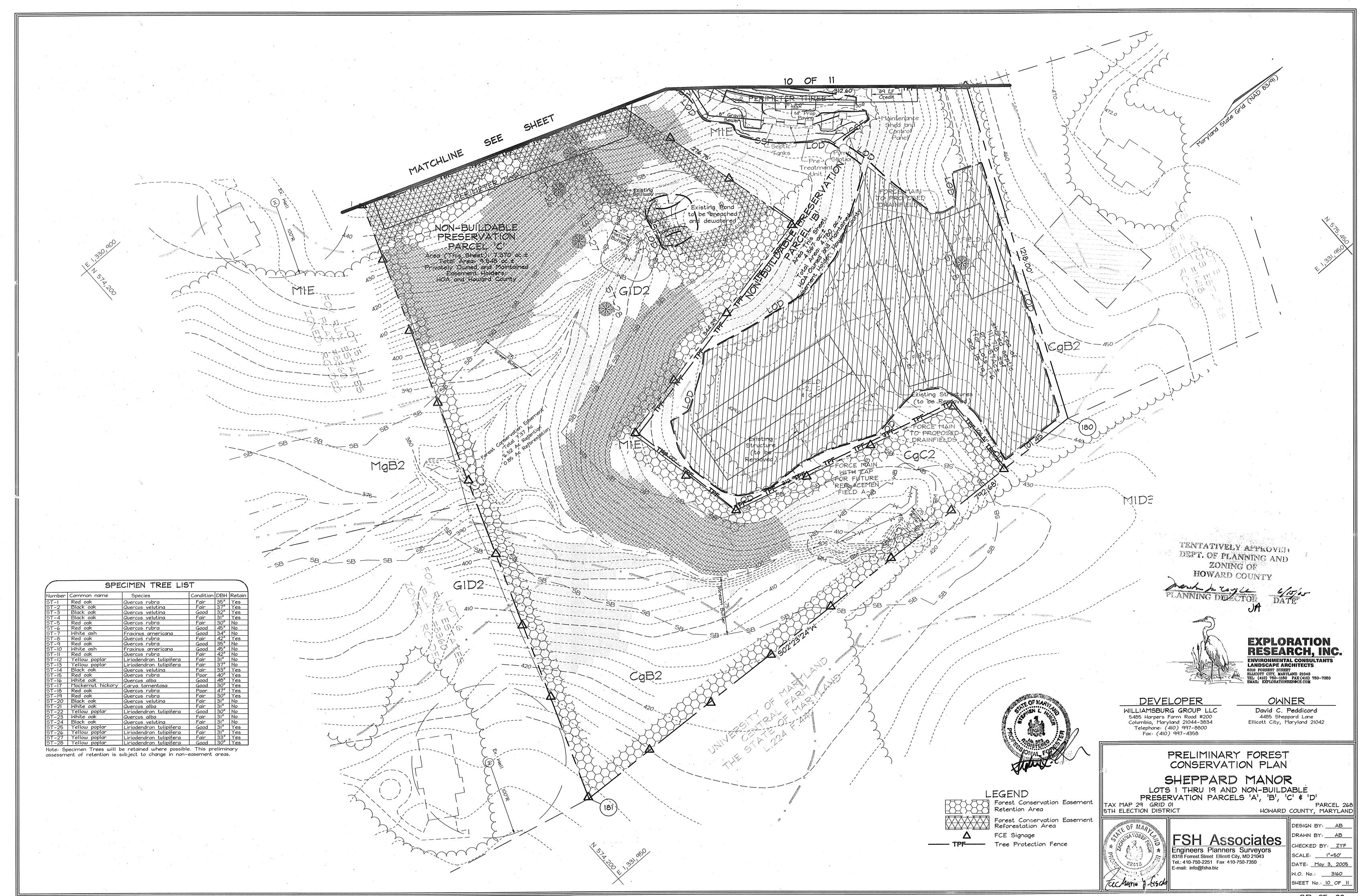












FOREST CONSERVATION NARRATIVE

This Forest Conservation Plan has been developed in accordance with the Howard County Forest Conservation Act of 1991. Additionally, the rules for Rural Cluster Subdivisions, Option C have been utilized. The total tract area consists of 42.89 acres of land. The site contains 17.91 acres of forest cover on the net tract.

Forest retained in easements will total 11.50 acres. A total of 0.85 acres of reforestation planting is proposed. Two forest conservation easements will be established. Total area contained within easements is 12.35 acres. Easement I will have retention and newly forested area for credit, including. large caliber stock to also meet landscape buffering requirements. Easement 2 will be all retention, including areas shown as existing driveway, which have complete canopy closure and are within critical root zone areas for the stand. The driveway will be removed and the forest floor allowed to regenerate naturally. Additionally, Easement I contains an existing pond, which will be dewatered and breached to allow planting. All easements contain some wetlands, streams and their buffers, and steep slopes.

New on-site plantings will be 2.5" cal. stock in area utilized for perimeter buffering and 2-3' containerized whip stock planted at 350 stems/acre with tree shelters in all other areas. Plant material will be chosen to match existing forest resources, as appropriate.

Forest Conservation Surety in the amount of \$118,701.00 will be posted with the Developers Agreement. Reforestation-0.84 Ac./37,026 s.f. @ \$0.50/s.f. = \$18,513.00 Retention-II.51 Ac./500,940 s.f. @ \$0.20/s.f. = \$100,188.00

FOREST CONSERVATION EASEMENT TABLE

EASMENT	TYPE	AREA (ACRES)
1	Reforestation Retention	0.85 6.52
2	Retention	4.98
TOTAL		12.35
IOIAL	Reforestation Retention	0.85 11.50

Easement 1: PLANTING AREA: 0.85 Ac.

Qty	Botanical Name	Common Name	Size	S.F. Credit/Plant	Total Credit
36	. Amalanchier canadensis	Serviceberry	2-3' ht.	125.0	4,500
35	Carya tomentosa	Mockernut Hickory	2-3' ht.	125.0	4,375
35	Cornus florida	Flowering Dogwood	2-3' ht.	125.0	4,375
35	Juniperus virginiana	Eastern Redcedar	2-3' ht.	125.0	4,375
2	Liriodendron tulipifera	Tulip Poplar	2.5" cal.+	400	800
34	Liriodendron tulipifera	Tulip Poplar	2-3' ht.	125.0	4,250
34	Pinus strobus	White Pine	2-3' ht.	125.0	4,250
2	Quercus alba	White Oak	2.5" cal.+	400	800
34	Quercus alba	White Oak	2-3' ht.	125.0	4,250
2	Quercus rubra	Red Oak	2.5" cal.+	400	800
34	Quercus rubra	Red Oak	2-3' ht.	125.0	4,250
	Total			0.85 Ac =	37,025 s.f.

Management Notes for Retention Areas

I. All proposed activities shall adhere to the conditions, schedules and terms ϕ an approved sediment control and erosion plan. 2. After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on-site, a preconstruction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate County inspectors shall attend.

3. Tree protection for all retained areas: a. All retention areas within 50 feet of proposed construction activitie. shall be protected by highly visible, well anchored temporary protection devi (silt fence or blaze orange plastic mesh).

b. All protection devices shall be in place prior to any grading or land c. All protection devices shall be properly maintained and shall remain place until construction has ceased.

d. Attachment of signs, fencing or other objects to trees is prohibited e. No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas. 4. If the critical root zone (see detail) is affected by construction activities such as grade change, digging for foundations and roads or utility installation: a. Prune roots with a clean cut using proper pruning equipment (see root pruning detail)

b. Water and fertilize as needed. 5. During construction phase, monitor and correct condition of retained trees for: soil compaction, root injury, flood conditions, drought conditions and other

6. Post-Construction Phase a. Inspect existing trees around the perimeter of disturbed limits for evidence of soil compaction, root injury, limb injury, or other stress signs and correct with proper management techniques such as root or pruning, soil aeration, fertilization, crown reduction or watering. Inspection and evaluation shall be performed by a licensed arborist.

b. Inspect for dead or dying trees or limbs which may pose safety hazard and remove.

c. No burial of discarded materials will occur onsite within the conservation d. No burning within 100 feet of wooded area.

e. All temporary forest protection structures will be removed after construction. Temporary signage shall be replaced with permanent signage on posts in locations shown. f. Following completion of construction, prior to use, the County inspector

INTERNATIONAL SOCIETY

OF ARBORICULTURE

shall inspect the entire area.

Soil Protection Zone Notes

1. The Soil Protection Zone shall include all areas contained Monthly visits during the first growing season are to assess the success of inside the Limit of Disturbance. the plantings and to determine if supplemental watering, pest control or other 2. Where possible, the Soil Protection Zone shall extend to actions are necessary. Early spring visits will document winter kill and autumn the drip line of specimen trees. For other groups of trees, visits will document summer kill. the zone shall be the drip line or 40% of the height of the 2 The minimum survival rate shall be 75% of the total number of trees plante: per acre at the end of the two year maintenance period. Wild tree seedlings

tree, whichever is greater 3. No construction activity is permitted within the Soil Protection Zone.

4. If soil has been compacted or grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan. 5. Root pruning shall occur prior to the beginning of construction 6. Where the Soil Protection Zone must encroach inside the

Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional 7. Prior to construction, the Limits of Disturbance shall be

marked and the ERI Professional shall determine which

trees will need preventative treatment or removal. 8. Tree maintenance and removal shall be undertaken by a qualified MD Tree Expert to ensure damage to surrounding trees is minimized. 9. Brush and limbs removed for construction shall be

chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.

INTERNATIONAL SOCIETY OF ARBORICULTURE 1400 WEST ANTHONY DRIVE CHAMPAIGN, IL 61821 (217) 355-9411 (217) 355-9516 FAX

Reforestation Area Plantina No Reforestation Area Monitorina Notes

from natural regeneration on the planting site may be counted up to 50%

Certification at the end of the two-year post construction period must

two growing season post construction period, with at least 50% of those

trees having the potential of attaining a 2" caliper DBH within 7 years.

4. Effective monitoring will assess plant survivability during the first growing

the amount of each species in the entire planting to be sampled.

toward the total survival number if they are healthy native species at least

indicate that the survival rates will result in a 100 tree per acre ratio for

a forest and the 3 to 4 foot height standard for whips by the end of the

Survival will be determined by a stratified random sample of the plantings.

The species composition of the sample population should be proportionate to

season and make recommendations for reinforcement planting if required at

Initial planting inspection and certification

ERI qualified professional 24 hours in adv 2. Reforestation areas may be planted as s

winter- early spring plantings are prefer vary from year to year but planting mo ground is no longer frozen. Alternate :

conditions warrants. and be made based . Soil amendments and fertilization rec upon the results of soil analysis for nit: thorus, potension, organic matter content and pH. If requir using a slow release, soluble 16-8-16 a led to last 5-8 years conufactured by

Mantine contractor to notify

se to do so. Late

as soon as the

be considered as

anting dates will

will be provided

approved equal.

in the planting

t all times prior

placed.

ic stened and placed

in Nursery Stock

· to trunk wounds,

once per week during

der to get established.

ring during installation

greated prior to planting.

contained in polyethylene perforated bags ADCO Works, P.O. Box 310 Hollins, N.Y 4. Plant materials shall be planted in accorda diagram, planting details and planting sche

5. Plant stock must be protected from desic ic to planting. Materials held for planting sha. in cool shaded areas until ready for placen 6. Planting materials shall be nursery grown

Plants not conforming to the American Sta specifications for size, form, vigor, or root breakage, desiccation, insect or disease mu 7. Newly planted trees may require watering the first growing season depending on rain The initial planting operation should allow

to completely soak backfill materials. 8. Mulch shall be applied in accordance with alagram provided and shall consist of composted, shredded hardened bark mulch, free of

9. Planting holes should be excavated to a minimum diameter of 2.5 to 3 times the diameter of the root ball or container. Mechanical angering is preferred with scarification of the sides of each hole.

10 All ery stock to be sprayed with deer repellent containing Bitrex such as Repellex All nursery stock to be aroun with deer repellent tablets in growing medium, such as Repelley Tablets.

FOREST CONSERVATION WORKSHEET

Net Tract Area	Acres
A. Total Tract Area	42.89
B. Area Within 100 Year Floodplain	0
C. Other deductions (Area p/o FCP for F-00-115)	0 +
D. Net Tract Area	42.89
Zoning Use Category: Residential	
Land Use Category	
E. Afforestation Minimum (20 $\% \times D$)	8,58
F. Conservation Threshold (25 % x D)	10.72
Existing Forest Cover	
G. Existing Forest on Net Tract Area	17.91
H. Forest Area Above Conservation Threshold	7.19
Breakeven Point	
1. Forest Retention Above Threshold with no	12.16
Mitigation	· · · · · · · · · · · · · · · · · · ·
J. Clearing Permitted without Mitigation	5.75
Proposed Forest Clearing	
K. Forest Areas to be Cleared	6.41
L. Forest Areas to be Retained	11.50
Planting Requirements	,
M. Reforestation for Clearing Above Threshold	1.60
N. Reforestation for Clearing Below the Threshold	0
P. Credit for Retention Above Conservation Threshold	0.78
Q. Total Reforestation Required	0.82 0
R. Total Afforestation Required S. Total Reforestation and Afforestation Requirement	0.82
5. Total Reforestation and Afronestation Requirement	0.02

CRITICAL ROOT ZONE

8 ft radius circle around

45' RADIUS CRZ

the trunk of the tree

For the edge of large areas, use the greater of the two choices below:

10" DBH TREE

10' RADIUS CRZ

I" DBH of the tree = 1' radius of the or

I" DBH = 1.5 ' radius of the critical root zone

critical root zone

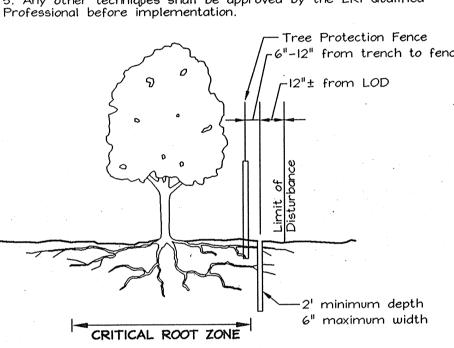
For isolated specimen trees:

6" DBH TREE

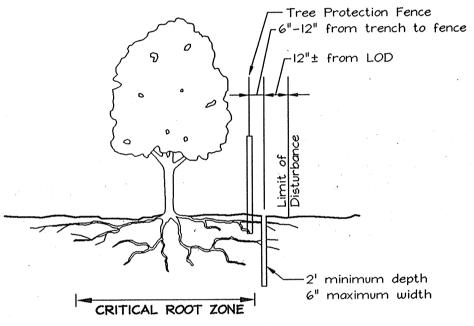
8' RADIUS CRZ

ROOT PRUNING

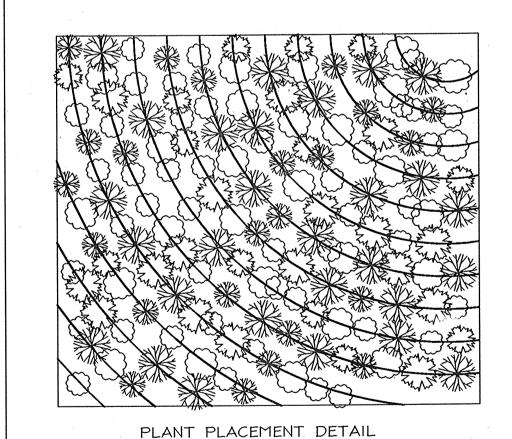
Retention areas shall be set prior to construction . Boundaries of retention areas shall be flagged, and location of



trench shall be specified by ERI Qualified Professional. 3. Roots shall be cut cleanly with root pruning equipment. Where roots >1" are found, trenching shall be done by air spade or hand tools. Roots II" shall be cut with a hand saw 4. Trench shall be immediately backfilled with soil removed or high organic content soil. 5. Any other techniques shall be approved by the ERI Qualified



CURVEILINEAR RANDOMIZED PLANTING



MIX TREE AND SHRUB SPECIES IN THE STAGING AREA. SET THE GUIDE CURVILINEAR LINE AS CLOSE TO

CONTOUR AS POSSIBLE

NOT TO SCALE

SET TOP OF ROOT BALL FLUSH TO GRADE OR 25-50 MM (1-2 IN.) — HIGHER IN SLOWLY DRAINING SOILS. 77,77, 100 MM (4 IN.) HIGH EARTH SAUCEF REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL NOTE: FOR DIMENSIONS OF PLANTING AREAS, TYPES OF SOIL AMENDMENTS, OR SOIL REPLACEMENT, SEE "SOIL IMPROVEMENT DETAILS."

TREE PLANTING DETAIL - B&B TREES IN ALL SOIL TYPES NOTE: THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

1. PLEASE REFER TO INTRODUCTION AND USE CRITERIA PRIOR TO USING THIS DETAIL.

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INTERNATIONAL SOCIETY OF ARBORICULTURE WIRE OR CABLE SIZES SHALL BE AS FOLLOWS: TREES UP TO 65 MM (2.5 IN.) CALIPER - 14 GAUGE TREES 65 MM (2.5 IN.) TO 75 MM (3 IN.) CALIPER - 12 GAUGE TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 35MM (1.5 IN.) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE. 13 MM (0.5 IN.) DIAM. -ALVANIZED WIRE OR CABLE 240 x 40 MM (1.5 x 1.5 IN.) -HARDWOOD STAKES OR OTHER APPROVED STAKE MATERIAL ALL STAKES SHALL BE DRIVEN OUTSIDE THE EDGE OF THE ROOT BALL.

12 inches tall.

ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 12 MM (0.5 IN.). REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.

TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF. THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.

O TREES WITH POOR — QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE. TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE. PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE. ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL. STAKING ADVISABLE.
TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

1. PLEASE REFER TO INTRODUCTION AND USE CRITERIA PRIOR TO USING THIS DETAIL.

TREE STAKING DETAIL - TREES 75MM (3 IN.) CALIPER OR LESS

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NTERNATIONAL SOCIETY OF ARBORICULTURE MAKE LATERAL SLICES IF ROOTBOUND-ROOT SYSTEM-KEEP 6 IN DIAMETER CLEARANCE OF MULCH AROUND STEM BACKFILL WITH--2" THICK MULCH RING EXISTING SOIL 24" IN DIAMETER MINIMUM CONTAINER PLANTING NOT TO SCALE

PLANTING PROCEDURE FOR CONTAINER GROWN PLANTS REMOVE THE PLANT EITHER BY CUTTING OR INVERTING THE CON THE . USE A KNIFE TO CUT THROUGH BOTTOM HALF OF THE ROOT BA

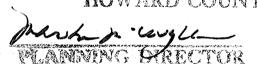
3. PLANT SHRUBS ON FORMED UP MOUNDS 4" ABOVE THE EXISTING WHEN HIGH WATER TABLE CONDITIONS EXIST, OTHERWISE PLANT WITH EXISTING GRADE.

4. PLANTING HOLE TO BE 2-3 TIMES THE DIAMETER OF THE CONTACT 5. INSERT FERTILIZER TABLET, BACKFILL 2/3 OF THE ROOT BALL A ID WATER. AFTER WATER PERCOLATES, BACKFILL HOLE TO TOP OF ROOT BALL AND

GENTLY TAMP SOIL TO FIRM CONTACT WITH PLANT.

7. APPLY MULCH RING AROUND PLANT KEEPING A 6 IN CLEARANCE FROM STEM.

TENTATIVELY APPROVED DEPT. OF PLANNING AND ZONING OF HOWARD COUNTY









EXPLORATION RESEARCH, INC.

NVIRONMENTAL CONSULTANTS LANDSCAPE ARCHITECTS 8318 FORREST STREET ELLICOTT CITY, MARYLAND 21043 TEL: (410) 750-1150 FAX: (410) 750-7350 EMAIL: EXPLORATIONRES@CS.COM

DEVELOPER

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OWNER

PRELIMINARY FOREST CONSERVATION NOTES AND DETAILS

PRESERVATION PA TAX MAP 29 GRID 01

MANOR ION-BUILDABLE 'A', 'B', 'C' \$ 'D'

5TH ELECTION DISTRICT



DESIGN BY: <u>ociates</u>

HOWARD COUNTY, MARYLAND

EXCAVATE A BASIN INTO THE HILL AT LEAST 2-3 TIMES THE SIZE OF THE ROOT BALL COMPACTED SLOPE-SLOPE BASIN FOR PLANTING DOWN TOWARDS UPHILL SIDE THICK MULCH RING MAKE LIP AT EDGE. OF SLOPE INTO UNDISTURBED SOIL AT BACK OF BASIN BACKFILL WITH EXISTING SOIL .

PLANTING ON STEEP SLOPES NOT TO SCALE

PLANT AS PER CONTAINER PLANTING DETAIL EXCEPT PREP OF PLANTING AREA A BASIN FOR PLANTING IS CUT INTO THE SLOPE WITH PLANT BEING PLACED NEAR THE DOWNHILL EDGE OF THE BASIN. BASIN SHOULD SLOPE TOWARD UPHILL SIDE TO ALLOW RAIN TO BE CAPTURED AND INFILTRATE. AN OVERFLOW CHANNEL SHALL BE CUT INTO UNDISTURBED

SOIL AT THE REAR OF THE BASIN TO ALLOW EXCESS RUNOFF AND SEDIMENT TO ESCAPE WITHOUT DAMAGING THE BASIN. MULCH AROUND PLANT IN BASIN.

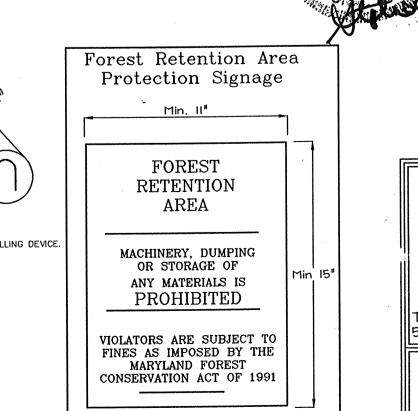
BLAZE ORANGE PLASTIC MESH ANCHOR POST SHOULD BE MINIMUM 2" STEEL "U" CHANNEL OR 2" x 2" TIMBER 6' IN LENGTH HIGHLY VISIABLE FLAGGING NCHOR POST MUST BE INSTALLED O A DEPTH OF NO LESS THAN 1/ OF THE TOTAL HEIGHT OF POST NOTES:

FOREST PROTECTION DEVICE ONLY.

RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.

BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE. ROOT DAMAGE SHOULD BE AVOIDED.
PROTECTIVE SIGNAGE MAY ALSO BE USED. DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.

> TREE PROTECTION DETAIL NOT TO SCALE



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CROSS BACKING

SIGN DETAIL: PERMANENT SIGN SIGNAGE NOTE: ALL TREE PROTECTION SIGNS SHALL BE PLACED ON METAL 'T' POSTS OR PRESSURE TREATED WOOD POLES. NO ATTACHMENT OF SIGNS TO TREES IS PERMITTED.

Surveyors iy, MD 21043 750-7350

DRAWN BY: AB CHECKED BY: ZYF SCALE: 1"=50' DATE: May 3, 2005 W.O. No.: 3160 SHEET No.: 11 OF 11

PARCEL 268