



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ ⁵²⁰⁸⁹⁵⁴ AP ~~9/20/04~~
AGENCY REVIEW: _____ DATE 9/21/2004

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

X Use Existing System

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

X Existing Structure

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 3 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Efrain Larenas
DAYTIME PHONE 301-483-9302 CELL 301-367-7616 FAX 301-953-0190

MAILING ADDRESS 7501 Flamewood Dr Clarksville MD 21029-1823
STREET CITY/TOWN STATE ZIP

APPLICANT Sam Corrice (LDE, Inc.)

DAYTIME PHONE 410-715-1070 CELL 443-928-4132 FAX 410-715-9540

MAILING ADDRESS 9250 Rumsey Rd Columbia MD 21045
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Larenas Property LOT NO. 1

PROPERTY ADDRESS 7529 Old Columbia Rd Laurel 20723
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 41 GRID 17 PARCEL(S) 270 PROPOSED LOT SIZE 1.03 AC

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Sam Corrice
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

④

DK brn
Loam
micac.

3'

Brn micac.
L Sand
loose s.g.
Coming out
Compact
in ground

8'

Black
rocks
stone frags
micac
hard saprolite
R 20%

10 1/2'

③

Str brn
hvyl
Pockets
in Loam
1p1

4' ±

org brn
SL, micac
Sbk

5'

3rd wall
stone
frags
30%

6'

Ubrn
w/f
LS
w.c.s.g.

11'

Bottom

②

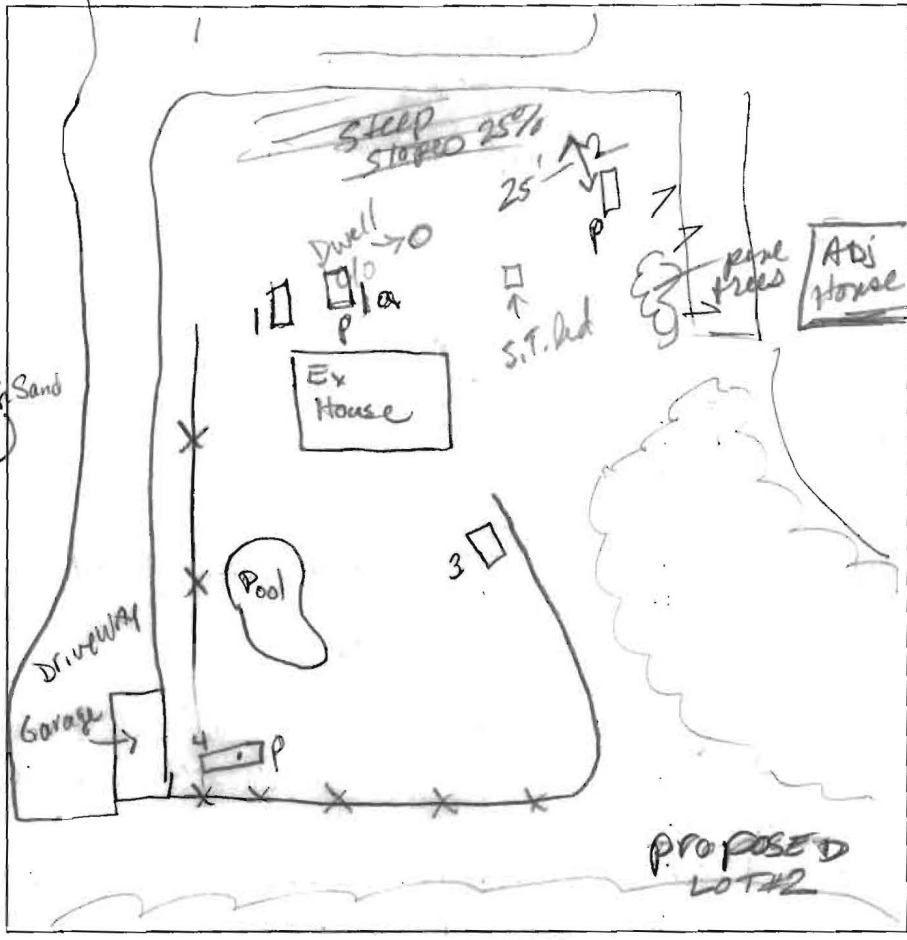
settled
fill
Brn loam
w.c.s.g.
material

5 1/2'

org brn
Brn black
white
LS
trace Rock -
10%

Bottom

12'



①

org brn
compact
s.g. Loam
pockets hvyl

5'

Wk org brn
micac
SL-L
w.c.
s.g.

Bottom

11'

①a

org brn
hvyl
&
Loam
Compact

6' ±

Wk org
brn
micac.
s.g.
LS
saprolite
20%

Bottom

11'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
2-11-05	4	4 1/2 M	10:45 ²⁰	10:48 ⁴⁹	10:53 [±]	5 [±]	P
TESTED IN SAND							
	3	5 1/2 S	11:14 ⁰⁰	11:40 ⁰⁰	wide go @ 6'		
	2	7 1/2	11:52 ³⁰	11:56	12:00	4	P
	1	6 1/2'	12:21	12:58	37 min 1st inch		
		8'	1:25 ⁰⁰	Too	SLOW		
	1a	8'	1:44 ⁰⁰	1:47	1:51	4	P

REMARKS Dry well effluent level 2' below grade, need to pump 3.1' full to top

SANITARIAN Kacie BACKHOE _____ OTHERS SAM, Mr. Larcenas

TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

Ex
SEPTIC SYSTEM TO BE SERVICED



KN called 9/27/04 to schedule Sched. 10/12

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 520896

AGENCY REVIEW: _____

DATE 9/21/04

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE **UNKNOWN** IF APPROPRIATE)
- COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) Efrain Larenas

DAYTIME PHONE 301-483-9302 CELL 301-367-7616 FAX _____

MAILING ADDRESS 7501 Flamewood Dr. Clarksville MD 21029-1823
STREET CITY/TOWN STATE ZIP

APPLICANT Sam Corrice (LDE, Inc.)

DAYTIME PHONE 410-715-1070 CELL 443-928-4132 FAX 410-715-9540

MAILING ADDRESS 9250 Rumsey Rd Columbia MD 21045
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME Larenas Property LOT NO. 2

PROPERTY ADDRESS 7529 Old Columbia Rd Laurel 20723
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 41 GRID 17 PARCEL(S) 270 PROPOSED LOT SIZE 0.95 AC

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT. Sam Corrice
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MARYLAND 21043-4544 (410) 313-1771 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH

A/P (8)
 org brn Loam
 4'
 lt brn, white SAND pockets in LS
 wk, friable Saprolite ~15-20%
 Bottom 11'

(5)
 Str brn hvy L-CL
 3'
 Str brn Loam w/ hvy Loam pockets
 6'
 brn lt brn LS micaceous
 Bottom 11'

(6)
 organic 1 1/2'
 tan, grayish colors from 4-6"
 SCL
 6'
 brn, lt brn LS
 Rock ~ 510%
 Bottom 11'



(6a)
 organic SBK L
 2'
 org SL micac w/ organic root channels
 4 1/2'
 moist LS (med gr) cobbles & gravel 25-30% from 5-7'
 of 7 1/2'

W (9) E
 org. Loam
 Str brn 2pl weak SL
 hvy L SCL
 hvy L CL
 3'
 4'
 5'
 lt brn brn LS fine-med gr
 11' Bottom

(10)
 DK brn Loam micac
 3 1/2'
 Brn micac SAND compact in grounds digs out loose
 LS v. micac.
 11' Bottom

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H	
2-11-05	(8)	6' M	2:09	2:11	2:13	2+	P	
	(5)	6 1/2' S	2:38	2:40	2:43	3+	P	
	(6)	7' S	3:10	3:16	3:24	8	M/P	
10-12-04	(6a)	SEE SOIL profile OBSERVATION HOLE						P
10-12-04	(9)	SEE SOIL profile						P
	(10)	5 1/2'	3:25	3:38	3:53	15	P	
		Hole 7 NOT DUG?						

REMARKS Holes 9 & 6a dug on 10-12-04, Hole 10 NOT PER PLAN
 SANITARIAN Kacie BACKHOE OTHERS SAM, Mr. Larens
 TEST HOLES USED IN SDA AVG. PERC TIME 8- SQ. FT/BR
 TRENCH WIDTH 3 INLET DEPTH 5 MAX. BOT DEPTH 7 EFFECTIVE SW 1'

LDE_{INC.}

Planning • Engineering • Surveying

November 22, 2006

Mr. Stuart F. Oster, R.S.
Howard County Health Department
3525-H Ellicott Mills Drive
Ellicott City, MD 21043

Revised
DEC 06 2006
DPZ - Land Dev

Re: Larenas Property, Lots 1 and 2, F06-189

Dear Mr. Oster:

Pursuant to your correspondence of October 17, 2006, please find the following for your review and approval:

1. One (1) revised Final Plat.
2. One (1) revised Supplemental Plan.
3. One (1) revised Forest Stand / Forest Conservation Plan.
4. One (1) approved Percolation Certification Plan.

In response to your comments, LDE offers the following:

1. The property is located within the Planned Water and Sewer Service Area. The existing dwelling (#7529) is connected to the public water system via Contract 647-W. The new dwelling proposed on Lot 2 will also be connected to this system by way of an individual water connection.

In regard to sewer, the existing dwelling is presently utilizing a private septic system and the required percolation testing has been completed satisfactorily for both the existing dwelling and new Lot 2. On November 7, 2005 the Health Officer approved and signed the Percolation Certification Plan, thereby allowing the subdivision to be processed in accordance with *Section 16.147.c.27 of the Subdivision Regulations Permitting Use of Interim Individual On-site Sewage Disposal Systems*. Appropriate notation has been shown on the plat (Note 21) and Supplemental Plan (Note 9). The principal reason for utilizing private sewage systems is the unavailability of public sewer to the fee simple property frontage.

2. It is our understanding, the owner previously provided documentation of the well abandonment (October 14, 2005) to the Health Department. The owner's transmittal of this information sequentially corresponds to the Health Department approval of the Percolation Certification Plan on November 17, 2005. We have asked the owner to check his files for a copy of the previously transmitted information (see copy attached).

Mr. Stuart F. Oster, R.S.

November 22, 2006

Page Two

3. As noted within Response #1, the septic system, whether existing or new, will still be required to service the property. Review of the approved Percolation Certification Plan requires repair of the septic system, not abandonment (Note 10), prior to Final Plat signature approval.

Should you have any questions, please contact our office.

Very Truly Yours,

LDE Inc.

A handwritten signature in black ink that reads "BRUCE D. BURTON". The signature is written in a cursive, slightly slanted style.

Bruce D. Burton, PE
Vice President

cc: Cindy Hamilton, DPZ
Efrain Larenas
Phil Mullinix
Mark Muffeletto

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 10/14/2005 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) N/A

* PERMIT NUMBER OF REPLACEMENT WELL N/A

* PERSON ABANDONING WELL: Efrain Larchas

WELL DRILLERS LICENSE NUMBER: _____

CIRCLE: MWD/MSD/MGD

* OWNER'S NAME: Efrain Larchas

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN: Laurel

TAX MAP 41 BLOCK 17 PARCEL 270

SUBDIVISION: _____

SECTION: _____ LOT: _____

NEAREST ROAD: 7529 Old Columbia Road

Laurel, MD 20723

MARYLAND GRID COORDINATES

E _____

BOX NUMBER

N _____

0 0 0	
0 0 0	

SHOW WELL LOCATION
 BY X WITHIN BOX

* TYPE OF WELL BEING ABANDONED:

- DRILLED
- BORED/AUGURED
- OTHER (specify) _____
- JETTED
- HAND DUG

* USE CODE:

- DOMESTIC
- IRRIGATION
- TEST/OBSERVATION
- MUNICIPAL/PUBLIC
- INDUSTRIAL

* TYPE OF CASING:

- STEEL
- CONCRETE
- PLASTIC
- OTHER (specify) _____

* SIZE OF CASING: 3.5 feet ~~INCHES~~ IN DIAMETER

* DEPTH OF WELL: 37 FEET DEEP

* WAS ANY CASING REMOVED? YES _____ NO
 if yes, length removed, in feet: 1

* WAS CASING RIPPED OR PERFORATED? _____ YES NO

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Concrete	1.5'	5'
Sand	5'	37'

Brian Baker

1223

MWD/MSD/MGD

10/14/2005

LICENSE #

CIRCLE ONE

DATE

Howard County Department of Planning and Zoning
Division of Land Development

WAIVER PETITION APPLICATION

Date Submitted/Accepted 12/6/06 DPZ File Number WP-07-054

I. Site Description

Subdivision Name/Property Identification: LARENAS PROPERTY
 Location of property: #2529 OLD COLUMBIA ROAD
(Street Address and/or Road Name)

RESIDENTIAL/SFD
(Existing Use)

RESIDENTIAL/SFD
(Proposed Use)

A-1
(Tax Map No.)

17
(Grid/Block No.)

270
(Parcel No.)

6th
(Election District)

R-20
(Zoning District)

1.93 ACRES
(Total Site Area)

Provide a brief site history including reference to all previously submitted or currently active plans on file with the County (subdivision plans, Board of Appeals petitions, waiver petitions, etc.)
SEE CURRENT MINOR SUBDIVISION F 06-193

II. Waiver Request

In accordance with Section 16.104 of the Howard County Subdivision and Land Development Regulations, the Department of Planning and Zoning, in conjunction with the Subdivision Review Committee **may grant waivers or modifications to the minimum requirements stipulated within the Regulations if it is determined that extraordinary hardships or practical difficulties may result from strict compliance with the regulations, or if it is determined that the regulations may be served to a greater extent by an alternative proposal.**

In the area below, the petitioner shall enumerate the specific numerical section(s) from the Subdivision and Land Development Regulations for which a waiver is being requested and provide a brief summary of the regulation. Attach a separate sheet if additional information is appropriate.

<u>Section Reference No.</u>	<u>Summary of Regulation</u>
1. <u>SECTION 16.120.b.5</u>	<u>LOT LAYOUT / EXCESSIVE NOISE LEVELS</u>
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

V. Plan Exhibit

A. Number of Copies Required

The waiver petition application must be accompanied by copies of a detailed plot plan, subdivision plat or site development plan (**14 sets of the completed waiver application and plan exhibit if the subject property adjoins a County road; 18 sets for properties adjoining a State road**). In instances where the waiver request concerns an approval extension or if an associated plan is in active processing, only 2 sets of plans are required along with 14 or 18 copies of the application form. **Plans must be folded to a size no larger than 7-1/2" x 12"**. The pre-packaging of plans and supplemental reports by SRC agency will be permitted by DPZ provided that each package contains a cover letter which itemizes all plans, reports and documents included in the package.

Please be advised that all plan application submissions are ACCEPTED BY APPOINTMENT ONLY. All plan submission appointments must be scheduled with the Division of Land Development at (410) 313-2350.

B. Plan Requirement Checklist

The detailed waiver petition exhibit, plot plan, subdivision plan or site development plan must indicate the following required information relevant to the waiver request to ensure acceptance of the waiver petition application for processing.

Legend:	<u>T</u> Information Provided	<u>X</u> Information Not Provided, Justification Attached
	<u>NA</u> Not Applicable	

- ✓ 1. Vicinity map scale 1" = 2,000' indicating and identifying the total boundary of the property, exact site location, vicinity roads and north arrow.
- ✓ 2. Bearings and distances of property boundary lines for the entire tract and size of tract area.
- ✓ 3. North arrow and scale of plan.
- ✓ 4. Location, extent, boundary lines and area of any proposed lots.
- ✓ 5. Any existing or proposed building(s), structures, points of access, driveways, topography, natural features and other objects and/or uses on the subject and adjacent properties which may be relevant to the petition; i.e. historic structures, cemeteries or environmentally sensitive areas.
- ✓ 6. Delineation of building setback lines.
- ✓ 7. Delineation of all existing public road and/or proposed street systems.
- ✓ 8. Identification and location of all easements.
- ✓ 9. Approximate delineation of floodplain, streams, wetland and forested areas, if applicable, and/or provide a professional certification that environmental features do not exist on the property.
- N/A 10. Road profile to evaluate sight distance, if the application includes a request for direct access to a major collector or more restrictive roadway classification.
- N/A 11. Any additional information to allow proper evaluation (e.g. for waivers to wetland buffers an alternative analysis and mitigation proposal are needed; for waivers to SDP requirements where there is no subdivision of land, an APFO Roads Test evaluation may be needed, for waivers of final plat or SDP, a copy of property deeds to confirm legal creation or status of property is needed).
- ✓ 12. Photographs, perspective sketches or cross-sections as necessary to adequately portray the waiver request.
- ✓ 13. The exhibit plans should be highlighted to accurately illustrate the requested waiver(s) to allow proper evaluation (i.e. proposed grading, tree clearing or other disturbances within environmentally sensitive areas or buffers).
- ✓ 14. Submit 2 sets of photographs for all existing on-site structures.
- ✓ 15. Identify the location of any existing wells and/or private septic systems.

N/A 16. Route 1 Manual

Compliance with the Route 1 Manual is required for new development and some alterations or enlargements located in the CE, TOD and CAC zoning districts and for other zoning districts located within the Route 1 corridor. All plan submissions, beginning with the initial subdivision or site development plan, shall show all applicable streetscape, site and building designs responding to the Route 1 Manual's requirements and recommendations. All plan submissions shall provide a written summary of how the proposed design achieves the objectives of the Route 1 Manual. Also, building design and schematic architectural elevation details must be included with the initial subdivision or site development plan submission.

✓ 17. Property Deeds – Information to confirm the legal creation or status of the property to be improved. (Copy of deeds from Howard County Land Records Office or record plat name and recording reference number). **A complete chronological deed history is required for all deeded residential properties. Provide 2 copies of the recorded deeds for the subject property tracing its history back to 1960.**

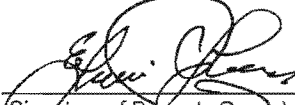
VI. **Fees**

The Waiver Petition application fee shall be in accordance with the adopted fee schedule. All checks shall be made payable to the *Director of Finance*. **The petition will not be accepted for processing until the fee has been paid. Incomplete, incorrect or missing information may result in the rejection of the application** and could cause additional time to be required to revise the petition for resubmittal and re-review. For more information or questions, contact DPZ at (410) 313-2350.

VII. **Owner's/Petitioner's Certification**

I/WE the undersigned fee simple owner(s) hereby make application to the Howard County Department of Planning and Zoning to relax the minimum requirements of the Howard County Subdivision and Land Development Regulations. The undersigned hereby certifies the information supplied herewith is correct and complete, confirms that the regulations and policies as referred to in the attached are understood, and authorizes periodic on-site inspections by the Howard County Subdivision Review Committee agencies. ***If the applicant is the owner's agent, written documentation from owner granting that authority is required.**

Owner's authorization attached *


(Signature of Property Owner)
(Fee Simple Owner Only) 12-1/06
(Date)

EFRAIN LARENAS
(Name of Property Owner)

7501 FLAMEWOOD DRIVE
(Address)

CLARKSVILLE, MD. 21029
(City, State, Zip Code)

E-Mail N/A

301.483.9302 SAME
(Telephone) (Fax)

Contact Person: EFRAIN LARENAS

(Signature of Petition Preparer) * (Date)

BRUCE D. BURTON P.E. LDE, INC.
(Name of Petition Preparer, Surveyor/Engineering or Agent/Developer)

9250 RUMSEY RD. #106
Address)

COLUMBIA, MD. 21045
(City, State, Zip Code)

E-Mail Bburton@ldeinc.net

410.715.1070 410.715.9540
(Telephone) (Fax)

Contact Person: BRUCE D. BURTON

LARENAS PROPERTY, 7529 Old Columbia Road, Laurel, MD 20723

LOTS 1 & 2 and Open Space Lot 3

WAIVER JUSTIFICATION

The owner / petitioner plans to subdivide his existing 1.93 acre residential lot into two (2) residential lots and one open space lot. The proposed residential lots will consist of one (1) new buildable lot and one (1) lot encompassing the existing house and site improvements. The onsite open space lot being created is contiguous to a large Howard County Recreation and Parks Open Space Lot associated with the Middle Patuxent River. The owner / Petitioner plans to dedicate this Open Space lot to the Department of Recreation and Parks.

Due to major improvements to Maryland Route 29 that have greatly increased the noise levels on the subject property since the original house on was built in 1962, the owner / developer believes that the burden to provide noise mitigation should be on the State.

The Petitioner, Mr. Efrain Larenas, requests that Section 16.120(b)(5) of the latest version of the Howard County Subdivision and Land Development Regulations be waived. We believe the following written justification supports the Petitioner's request to waive the specified Section of the Regulations.

Section 16.120(b)(5)

- a.) Strict compliance with the Regulations (i.e requiring noise mitigation measures be installed onsite) would present a practical difficulty and extreme hardship to the Petitioner by requiring him to construct a berm, fence or other device to reduce the onsite noise levels below the required 65 dBA level on lot 1. The existing lot 1 improvements will not allow for the installation of any further structures on lot 1.
- b.) The Petitioner's alternative proposal will serve the intent of the Regulations to a greater extent by allowing the existing property is remain as is without constructing a noise mitigation structure that cannot possibly fit within the rear yard area of lot 1. The existing spatial constraints will not allow for the installation of any noise mitigation measures. Also, the computed unmitigated 65dBA line does not encroach within the rear yard area of proposed lot 2.
- c.) The public interests are best served by approval of the Petitioner's request to waive the noise mitigation requirements. This would allow the existing lot 1 improvements to remain undisturbed and cause no construction inconveniences for the existing residences that derive vehicular access from the common driveway.
- d.) One of the main goals of the Regulations is to insure that adequate noise levels are maintained on residential properties. The subject project is located on an existing Howard County minor Collector. The main noise source impacting the property is from the northbound lanes of Maryland Route 29. Therefore, approval of the Petitioner's request for relief from the noise mitigation requirements will have no negative impacts on existing County infrastructure.

Howard County Department of Planning and Zoning
Division of Land Development

**INITIAL SUBMISSION
WAIVER PETITION WORKSHEET
(For DPZ Use Only)**

Project Name _____ DPZ File No. _____
 DPZ Plan Reviewer _____ Submission Date _____
 Plan Consultant Representative _____ Time _____

- I. **Application Requirements** *Indicate Yes, No or N/A*
- a. Application is complete _____
 - b. Required number of plans and applications are provided _____
 ___ Plans (14 sets on County Road or
 ___ Applications 18 sets on State Road)
 - c. Supplemental Information is provided _____
 - d. Certification of pre-submission HDC advisory meeting for new projects in
 Historic District or listed in Historic Sites Inventory _____
 - e. Photographs of existing structures (for Historic Preservation Review) _____
 - f. MAA Approval Letter (if applicable) _____
 - g. Written summary of Route 1 manual compliance (if applicable)..... _____

II. **Fee Computation**

Number of waivers requested.....	Fee 1
* Base Fee for first two waiver sections (\$450).....	<u>450.00</u>
Fee for each additional waiver section (___ additional waivers x \$50 each).....	_____
* (Maximum fee of \$350 for Agricultural Preservation parcels)	_____
TOTAL	_____

III. **Certification**

Cash Receipt No. _____	Account #011-005-4201	Amount	<u>\$450.00</u>
------------------------	-----------------------	--------	-----------------

Check issued by _____

- ___ Waiver petition application is accepted for processing.
- ___ Scheduled SRC meeting date.
- ___ Waiver petition application is rejected.

Reason: _____

___ Resubmission is accepted. Date _____ Staff initials _____

Comments/Notes _____

LDEINC.

Planning • Engineering • Surveying

June 19, 2006

Ms. Kacie Noonan
Bureau of Environmental Health
Howard County Health Department
7178 Columbia Gateway Drive
Columbia, MD 21046

Revised
JUN 20 2006
BPP - Daniel Day

Re: F-06-189
Larenas Property

Dear Ms. Noonan:

The following is in response to your comments of April 20, 2006.

The client is aware of the water allocation requirement. Note 20 (previously 19) has been revised.

The existing septic on Lot 1 is currently being replaced.

If you have any questions please contact our office.

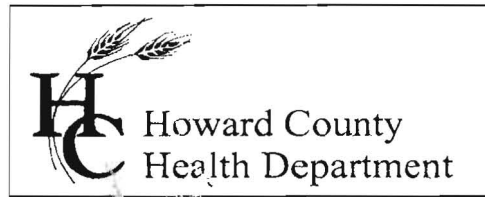
Very Truly Yours,

LDE Inc.



Samuel W. Corrice, P.E.
Project Manager

F/04-026.1/Documents/Noonan Comments 042006.doc




7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

MEMORANDUM

DATE: April 20, 2006

TO: Cindy Hamilton, Chief
Planning & Zoning, Division of Land Development

FROM: Kacie Noonan, Registered Sanitarian
Well and Septic Program 
Development Coordination Section

RE: File Number: F-06-189
Title: Larenas Property

The following comment applies to the plan prepared by LDE, Inc. Prior to final plat signature, our office must be notified in writing by the proper officials that public water is available to lot 2. Alter note #19 on the Final Record Plat. Lastly, our office stated in November 3, 2005 letter that the existing septic system on lot 1 must be replaced prior to final record plat signature.

KN

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 3/31/06

DPZ File No. F-06-189

Department of Planning and Zoning

- Transportation Planning
- Historic Preservation
- Public Service and Zoning Administration
- Research
- Address Coordinator

- 1 Environmental and Community Planning (Ag Pres/Route 1)
- 4 Development Engineering Division
- Other
- 2 File

Agencies

- 1 Soil Conservation District
- Department of Inspections, Licenses & Permits
- 1 Department of Fire and Rescue Services
- 1 State Highway Administration
- 1 Health Department
- 1 Public School System
- 1 Recreation and Parks
- WSSC
- MD Aviation Administration

- 1 Tax Assessment
- 2 Verizon
- 2 BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

RE: LARENAS PROP, LOTS 1+2

ENCLOSED FOR YOUR → Signature Approval Review & Comments Files
 THE ENCLOSED → Original Pre-Packaged Plan Set

Plans	# of Sheets
<input type="checkbox"/> Sketch Plan	<input type="checkbox"/>
<input type="checkbox"/> Prel Equiv Sketch Plan	<input type="checkbox"/>
<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/>
<u>22</u> Final Plat/Plat of Easement/RE Plat	<u>1</u>
<input type="checkbox"/> Final Constr Plans (RDS)	<input type="checkbox"/>
<input type="checkbox"/> Final Development Plan	<input type="checkbox"/>
<input type="checkbox"/> Site Development Plan	<input type="checkbox"/>
<u>4</u> Landscape Plan/Supplemental Plan	<input type="checkbox"/>
<input type="checkbox"/> Grading Plan	<input type="checkbox"/>
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	<input type="checkbox"/>
<input type="checkbox"/> Water and Sewer Plan	<input type="checkbox"/>

Supplemental Documents
<u>3</u> Wetlands Report
<u>6</u> Soils/Topo Map/Drain Area Map
<u>5</u> FSD/FCP/Worksheet and Application
<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Preliminary Road Profiles
<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<u>3</u> Noise Study
<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/> Response Letter
<input type="checkbox"/> Perc Plat
<input type="checkbox"/> Scenic Road Exhibits
<u>2</u> Deeds
<input type="checkbox"/> Photographs
<input type="checkbox"/> Retaining Wall Comps/Details
<input checked="" type="checkbox"/> Poster/Community or HDC Meeting Information
<input type="checkbox"/> Route 1 Details/Summary

- Applications
- Waiver Petition Applic/Exhibit
 - Planning Board Application
 - ASDP/CSDP Application
 - DED Application/Checklist
 - DED Fee Receipt/Deeds/Cost Estimate

WAS: Received Tentatively Approved Recorded
 Received and Revised Approved On 3/31/06

COMMENTS: 4/19/06 SEE comment - NOTE #19 ON proposed Final SRC/Comments Due By: 4/26/06
Also, SEE previous 11/3/05 letter - w/ repair ex. S.S. for lot 1 (KN)

Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

DPZ STAFF INITIALS BJ

FAST TRACK PLAN

DataBase No. _____

KN

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 6/20/06

DPZ File No. F.06-189

Department of Planning and Zoning

- Transportation Planning
- Historic Preservation
- Public Service and Zoning Administration
- Research
- Address Coordinator

- Environmental and Community Planning (Ag Pres/Route 1)
- Development Engineering Division
- Other
- File

Agencies

- Soil Conservation District
- Department of Inspections, Licenses & Permits
- Department of Fire and Rescue Services
- State Highway Administration
- Health Department
- Public School System
- Recreation and Parks
- WSSC
- MD Aviation Administration

- Tax Assessment
- Verizon
- BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

Revised
JUN 20 2006
DPZ - Land Dev

RE: Larenas Property

ENCLOSED FOR YOUR → Signature Approval
THE ENCLOSED → Original

Review & Comments Files
 Pre-Packaged Plan Set

Plans	# of Sheets	Supplemental Documents
<input type="checkbox"/> Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Wetlands Report
<input type="checkbox"/> Prel Equiv Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Soils/Topo Map/Drain Area Map
<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/>	<input type="checkbox"/> FSD/FCP/Worksheet and Application
<input checked="" type="checkbox"/> Final Plat/Plat of Easement/RE Plat	<u>1</u>	<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Final Constr Plans (RDS)	<input type="checkbox"/>	<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Final Development Plan	<input type="checkbox"/>	<input type="checkbox"/> Preliminary Road Profiles
<input type="checkbox"/> Site Development Plan	<input type="checkbox"/>	<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<input type="checkbox"/> Landscape Plan/Supplemental Plan	<input type="checkbox"/>	<input type="checkbox"/> Noise Study
<input type="checkbox"/> Grading Plan	<input type="checkbox"/>	<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	<input type="checkbox"/>	<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Water and Sewer Plan	<input type="checkbox"/>	<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Response Letter
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Perc Plat
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Scenic Road Exhibits
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Deeds
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Photographs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Retaining Wall Comps/Details
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Poster/Community or HDC Meeting Information
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Route 1 Details/Summary

Revised

JUN 20 2006

DPZ - Land Dev

WAS: Received Tentatively Approved
 Received and Revised Approved

Recorded
On 6/20/06

COMMENTS: _____

SRC/Comments Due By: 7/7/06

Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

DPZ STAFF INITIALS JL

Is their
septic
done - LOT 1

? Public

if done, I can
Approve F KN

RECEIVED

WARD COUNTY HEALTH DEPT
ENVIRONMENTAL HEALTH

2006 JUN 22 AM 7:29

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 12/26/06

DPZ File No. 02-07-054

Department of Planning and Zoning

- Transportation Planning
- Historic Preservation
- Public Service and Zoning Administration
- Research
- Address Coordinator

- Environmental and Community Planning (Ag Pres/Route 1)
- Development Engineering Division
- Other
- File

Agencies

- Soil Conservation District
- Department of Inspections, Licenses & Permits
- Department of Fire and Rescue Services
- State Highway Administration
- Health Department
- Public School System
- Recreation and Parks
- WSSC
- MD Aviation Administration

- Tax Assessment
- Verizon
- BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

RE: LARENAS PROPERTY

ENCLOSED FOR YOUR → Signature Approval
THE ENCLOSED → Original

Review & Comments Files
 Pre-Packaged Plan Set

Plans	# of Sheets
<input type="checkbox"/> Sketch Plan	<input type="checkbox"/>
<input type="checkbox"/> Prel Equiv Sketch Plan	<input type="checkbox"/>
<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/>
<input type="checkbox"/> Final Plat/Plat of Easement/RE Plat	<input type="checkbox"/>
<input type="checkbox"/> Final Constr Plans (RDS)	<input type="checkbox"/>
<input type="checkbox"/> Final Development Plan	<input type="checkbox"/>
<input type="checkbox"/> Site Development Plan	<input type="checkbox"/>
<input type="checkbox"/> Landscape Plan/Supplemental Plan	<input type="checkbox"/>
<input type="checkbox"/> Grading Plan	<input type="checkbox"/>
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	<input type="checkbox"/>
<input type="checkbox"/> Water and Sewer Plan	<input type="checkbox"/>

Supplemental Documents
<input type="checkbox"/> Wetlands Report
<input type="checkbox"/> Soils/Topo Map/Drain Area Map
<input type="checkbox"/> FSD/FCP/Worksheet and Application
<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Preliminary Road Profiles
<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<input type="checkbox"/> Noise Study
<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/> Response Letter
<input type="checkbox"/> Perc Plat
<input type="checkbox"/> Scenic Road Exhibits
<input type="checkbox"/> Deeds
<input type="checkbox"/> Photographs
<input type="checkbox"/> Retaining Wall Comps/Details
<input type="checkbox"/> Poster/Community or HDC Meeting Information
<input type="checkbox"/> Route 1 Details/Summary

Applications	
<input checked="" type="checkbox"/> Waiver Petition Applic/Exhibit	<input type="checkbox"/>
<input type="checkbox"/> Planning Board Application	<input type="checkbox"/>
<input type="checkbox"/> ASDP/CSDP Application	<input type="checkbox"/>
<input type="checkbox"/> DED Application/Checklist	<input type="checkbox"/>
<input type="checkbox"/> DED Fee Receipt/Deeds/Cost Estimate	<input type="checkbox"/>

* See F-06-159 *

WAS: Received Tentatively Approved
 Received and Revised Approved

Recorded On 12/26/06

COMMENTS: _____ SRC/Comments Due By: 12/28/06

Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

40 12/26/06

DPZ STAFF INITIALS BT

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 12/6/06

DPZ File No. F-06-189

Department of Planning and Zoning

- Transportation Planning
- Historic Preservation
- Public Service and Zoning Administration
- Research
- Address Coordinator

- Environmental and Community Planning (Ag Pres/Route 1)
- Development Engineering Division
- Other
- File

Agencies

- Soil Conservation District
- Department of Inspections, Licenses & Permits
- Department of Fire and Rescue Services
- State Highway Administration
- Health Department
- Public School System
- Recreation and Parks
- WSSC
- MD Aviation Administration

- Tax Assessment
- Verizon
- BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

Revised
DEC 06 2006
DPZ - Land Dev

RE: LARENAS PROP., LOTS 1 + 2

ENCLOSED FOR YOUR → Signature Approval
THE ENCLOSED → Original

Review & Comments Files
 Pre-Packaged Plan Set

Plans	# of Sheets
<input type="checkbox"/> Sketch Plan	_____
<input type="checkbox"/> Prel Equiv Sketch Plan	_____
<input type="checkbox"/> Preliminary Plan	_____
<input type="checkbox"/> Final Plat/Plat of Easement/RE Plat	_____
<input type="checkbox"/> Final Constr Plans (RDS)	_____
<input type="checkbox"/> Final Development Plan	_____
<input type="checkbox"/> Site Development Plan	_____
<input type="checkbox"/> Landscape Plan/Supplemental Plan	_____
<input type="checkbox"/> Grading Plan	_____
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	_____
<input type="checkbox"/> Water and Sewer Plan	_____

Supplemental Documents
<input type="checkbox"/> Wetlands Report
<input type="checkbox"/> Soils/Topo Map/Drain Area Map
<input type="checkbox"/> FSD/FCP/Worksheet and Application
<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Preliminary Road Profiles
<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<input type="checkbox"/> Noise Study
<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/> Response Letter
<input type="checkbox"/> Perc Plat
<input type="checkbox"/> Scenic Road Exhibits
<input type="checkbox"/> Deeds
<input type="checkbox"/> Photographs
<input type="checkbox"/> Retaining Wall Comps/Details
<input type="checkbox"/> Poster/Community or HDC Meeting Information
<input type="checkbox"/> Route 1 Details/Summary

Applications
<input type="checkbox"/> Waiver Petition Applic/Exhibit
<input type="checkbox"/> Planning Board Application
<input type="checkbox"/> ASDP/CSDP Application
<input type="checkbox"/> DED Application/Checklist
<input type="checkbox"/> DED Fee Receipt/Deeds/Cost Estimate

* SEE WP-07-054

WAS: Received Tentatively Approved
 Received and Revised Approved

Recorded On 12/6/06

COMMENTS: _____

SRC/Comments Due By: 12/22/06

Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

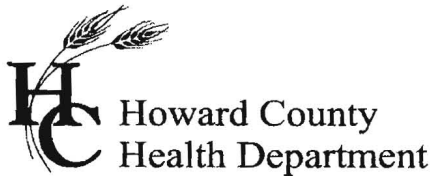
DPZ STAFF INITIALS J

From: Stuart Oster
To: Wellen, Jennifer
Date: 10/16/06 9:55AM
Subject: F-06-189 Larenas Property

Forwarded to Brenda Barth

Hey Jennifer, I think your initials are on this plan. I just recieved these plans on Friday 10/13/06, however the SRC due date is 10/5/06? A previous Sanitarian commented in April 2006 about the septic on Lot 1 needs to be abandoned, we need documentation on the well abandonment and this lot needs to hook up to public sewer. Let me know if your the right contact. Thanks, Stuart Oster, Health Dept.

CC: Maenhardt, Tanya




7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

MEMORANDUM

TO: Cindy Hamilton, Planning Manager
Planning and Zoning, Land Development

FROM: Stuart F. Oster, R.S. 
Groundwater Management Section Supervisor
Well and Septic Program

DATE: October 17, 2006

RE: File Number: F-06-189
Title: Larenas Property, Lots 1 & 2, OS Lot 3
Map 41, Grid 17, Parcel 270

According to public tax records, the primary structure on this parcel was built in 1961. Public utility records show connection to water **only** in 1981. No sewer connection. No Health Department records are available.

If your property is located within the metropolitan district, the proposed lots and existing dwellings are require to connect to the County's public water and sewer systems.

Submittal indicates a well was abandoned on October 14, 2005. Documentation of this abandonment is required. The location of existing septic system is required on the plans. Documentation of or a suitable schedule for proper abandonment/sealing of the septic system should be completed prior to submission of originals for signature.

C: File

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 9/11/06

DPZ File No. FO-189

Department of Planning and Zoning

- Transportation Planning
- Historic Preservation
- Public Service and Zoning Administration
- Research
- Address Coordinator

- Environmental and Community Planning (Ag Pres/Route 1)
- Development Engineering Division
- Other
- File

Agencies

- Soil Conservation District
- Department of Inspections, Licenses & Permits
- Department of Fire and Rescue Services
- State Highway Administration
- Health Department
- Public School System
- Recreation and Parks
- WSSC
- MD Aviation Administration

- Tax Assessment
- Verizon
- BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

RE: Freeway Property

ENCLOSED FOR YOUR → Signature Approval Review & Comments Files
 THE ENCLOSED → Original Pre-Packaged Plan Set

Plans	# of Sheets	Supplemental Documents
<input type="checkbox"/> Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Wetlands Report
<input type="checkbox"/> Prel Equiv Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Soils/Topo Map/Drain Area Map
<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/>	<input type="checkbox"/> FSD/FCP/Worksheet and Application
<input checked="" type="checkbox"/> Final Plat/Plat of Easement/RE Plat	<input type="checkbox"/>	<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Final Constr Plans (RDS)	<input type="checkbox"/>	<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Final Development Plan	<input type="checkbox"/>	<input type="checkbox"/> Preliminary Road Profiles
<input type="checkbox"/> Site Development Plan	<input type="checkbox"/>	<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<input type="checkbox"/> Landscape Plan/Supplemental Plan	<input type="checkbox"/>	<input type="checkbox"/> Noise Study
<input type="checkbox"/> Grading Plan	<input type="checkbox"/>	<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	<input type="checkbox"/>	<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Water and Sewer Plan	<input type="checkbox"/>	<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
<input type="checkbox"/> Waiver Petition Applic/Exhibit	<input type="checkbox"/>	<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/> Planning Board Application	<input type="checkbox"/>	<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/> ASDP/CSDP Application	<input type="checkbox"/>	<input type="checkbox"/> Response Letter
<input type="checkbox"/> DED Application/Checklist	<input type="checkbox"/>	<input type="checkbox"/> Perc Plat
<input type="checkbox"/> DED Fee Receipt/Deeds/Cost Estimate	<input type="checkbox"/>	<input type="checkbox"/> Scenic Road Exhibits
		<input type="checkbox"/> Deeds
		<input type="checkbox"/> Photographs
		<input type="checkbox"/> Retaining Wall Comps/Details
		<input type="checkbox"/> Poster/Community or HDC Meeting Information
		<input type="checkbox"/> Route 1 Details/Summary

WAS: Received Tentatively Approved Recorded
 Received and Revised Approved On 9/11/06

COMMENTS: _____ SRC/Comments Due By: 10/5/06

Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

DPZ STAFF INITIALS JW

Jana. for Welby?

HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Division of Land Development

DATE: 4-11-07

DPZ File No. SDP-07-107

Department of Planning and Zoning

- 1 Transportation Planning
- 1 Historic Preservation
- 1 Public Service and Zoning Administration
- 1 Research
- 1 Address Coordinator

- 1 Environmental and Community Planning (Ag Pres/Route 1)
- 1 Development Engineering Division
- 1 Other
- 1 File

*See:
(F-06-189)*

Agencies

- 1 Soil Conservation District
- 1 Department of Inspections, Licenses & Permits
- 2 Department of Fire and Rescue Services
- 1 State Highway Administration
- 1 Health Department
- 1 Public School System
- 1 Recreation and Parks
- WSSC
- MD Aviation Administration

- 1 Tax Assessment
- 1 Verizon
- 1 BGE
- Cable TV
- Police
- MTA
- Finance
- DPW, Real Estate Services
- DPW, Construction and Inspection
- DPW, Bureau of Utilities

RE: Sarens Property Inc 2

ENCLOSED FOR YOUR → Signature Approval Review & Comments Files
 THE ENCLOSED → Original Pre-Packaged Plan Set

Plans	# of Sheets	Supplemental Documents
<input type="checkbox"/> Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Wetlands Report
<input type="checkbox"/> Prel Equiv Sketch Plan	<input type="checkbox"/>	<input type="checkbox"/> Soils/Topo Map/Drain Area Map
<input type="checkbox"/> Preliminary Plan	<input type="checkbox"/>	<input type="checkbox"/> FSD/FCP/Worksheet and Application
<input type="checkbox"/> Final Plat/Plat of Easement/RE Plat	<input type="checkbox"/>	<input type="checkbox"/> Declaration of Intent (Forest Cons)
<input type="checkbox"/> Final Constr Plans (RDS)	<input type="checkbox"/>	<input type="checkbox"/> Drainage and/or Computation/Pond Safety Comps
<input type="checkbox"/> Final Development Plan	<input type="checkbox"/>	<input type="checkbox"/> Preliminary Road Profiles
<u>25</u> Site Development Plan	<u>3</u>	<input type="checkbox"/> APFO Roads Test/Mitigation Plan/Traffic Study
<input type="checkbox"/> Landscape Plan/Supplemental Plan	<input type="checkbox"/>	<input type="checkbox"/> Noise Study
<input type="checkbox"/> Grading Plan	<input type="checkbox"/>	<input type="checkbox"/> Sight Distance Analysis/Speed Flow Study
<input type="checkbox"/> House Type Revision/Walk-Thru Red-Line	<input type="checkbox"/>	<input type="checkbox"/> Floodplain Study
<input type="checkbox"/> Water and Sewer Plan	<input type="checkbox"/>	<input type="checkbox"/> Stormwater Management Comps/Geo-Tech Report
Applications		<input type="checkbox"/> Industrial Waste Survey (DPW)
<input type="checkbox"/> Waiver Petition Applic/Exhibit	<input type="checkbox"/>	<input type="checkbox"/> Road Poster Form Letter
<input type="checkbox"/> Planning Board Application	<input type="checkbox"/>	<input type="checkbox"/> Response Letter
<input type="checkbox"/> ASDP/CSDP Application	<input type="checkbox"/>	<input type="checkbox"/> Perc Plat
<input type="checkbox"/> DED Application/Checklist	<input type="checkbox"/>	<input type="checkbox"/> Scenic Road Exhibits
<input type="checkbox"/> DED Fee Receipt/Deeds/Cost Estimate	<input type="checkbox"/>	<input type="checkbox"/> Deeds
		<input type="checkbox"/> Photographs
		<input type="checkbox"/> Retaining Wall Comps/Details
		<input type="checkbox"/> Poster/Community or HDC Meeting Information
		<input type="checkbox"/> Route 1 Details/Summary

WAS: Received Tentatively Approved Recorded
 Received and Revised Approved On 4-11-07

COMMENTS: Appears to meet Departmental requirements SRC Comments Due By: 5-3-07

1 GAL Check, initial and return to the Department of Planning and Zoning if plan is approved with no comments.

MP
DPZ STAFF INITIALS




7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

MEMORANDUM

TO: Cindy Hamilton, Planning Manager
Planning and Zoning, Land Development

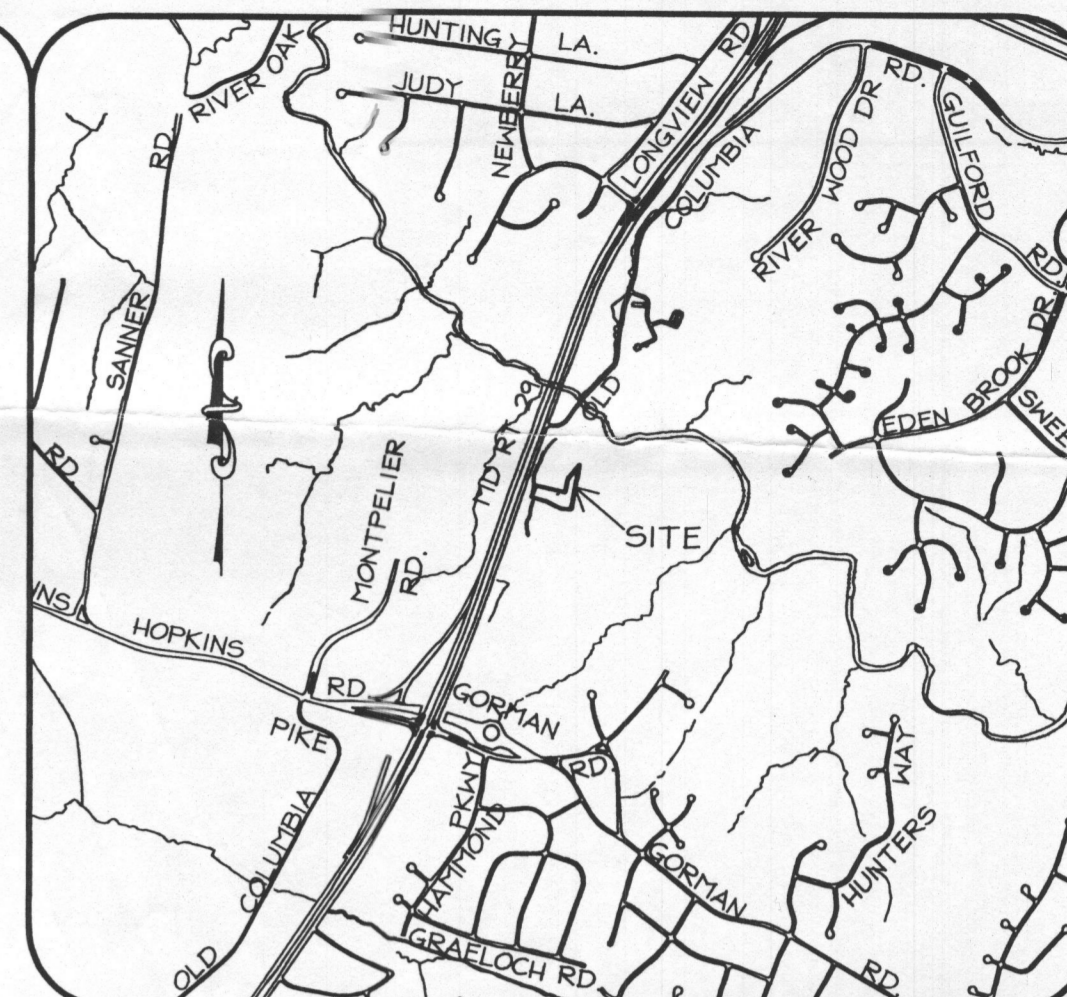
FROM: Stuart F. Oster, R.S. 
Groundwater Management Section Supervisor
Well and Septic Program

DATE: December 20, 2006

RE: File Number: F-06-189
Title: Larenas Property, Lots 1 & 2 & OS 3
Map 41, Grid 17, Parcel 270

Previous Health Department correspondence required that the existing septic system be upgraded before submission of originals for signature. To date, we have met with the contractor to do a layout inspection but have not been further contacted about an installation inspection. Also, we need a Health Department signature block on the plans.

C: File



Vicinity Map
Scale 1"=2000'

NOTES:

- The topography shown hereon is based on a field survey by LDE, Inc. and expanded by a Howard County digital photogrammetry map.
- The property lines shown hereon are based upon drawings of record and recorded deeds.
- Unless otherwise shown, no wells or septic systems are located within 100' of the property.
- The purpose of this plan is to provide area for three useable septic systems for a four (4) bedroom house for new lot 2 and assess and identify a 10,000 Sq. Ft. septic area for the existing home on Lot 1.
- Total Area of Property 2.0 Acres ±
- The lots shown hereon comply with the minimum lot area and the ownership width as required by the Maryland State Department of the Environment.
- Ex Zoning: R-20
- Deed Reference: Liber 976 Folio 139
- Public water will be utilized for Lot 2.
- Existing dwelling on Lot 1 is connected to public water.
- Existing septic for Lot 1 must be repaired prior to final record plat.

LEGEND

- Existing 2' Contour - [Symbol]
- Existing 10' Contour - [Symbol]
- Existing Treeline - [Symbol]
- Existing Driveway - [Symbol]
- Soils Boundary - [Symbol]
- Existing Stream - [Symbol]
- Proposed Percolation Test Hole/Passed - [Symbol]
- Percolation Test Hole/Failed - [Symbol]
- Previous Test Locations (Observation) - [Symbol] 10/12/04
- Existing Well - [Symbol]
- Ex. Well (Abandoned) - [Symbol]
- Proposed Septic (10,000 Sq. Ft.) Recovery Area - [Symbol]
- 25% or Greater Slopes - [Symbol]

SOILS LEGEND			
HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION	REMARKS
D	Ba	Baile Silt Loam	-
B	M1B2	Manor loam, 3% - 8% slopes, moderately eroded.	-
B	MgC2	Manor Gravelly loam, 8% - 15%, moderately eroded.	-
B	M1D2	Manor loam, 15% - 25% slopes, Moderately eroded.	-
B	M1E	Manor loam, 25% - 45% slopes,	-

LDE Inc.

Engineers, Surveyors, Planners
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

DESIGNED	SWC	Percolation Certification Plan	SCALE	1"=50'
DRAWN	MDL	Lorenas Property	DRAWING	1 OF 1
CHECKED	SWC	Tax Map #41 Grid #17 Parcel 270 6th Election District - Howard County, Maryland 2529 Old Columbia Rd Laurel, MD 20723	JOB NO.	04-026
DATE	7/2005	OWNER	Efrain R Lorenas Et Al 7501 Flamewood Dr Clarksville, MD 21029	FILE NO. 04-026

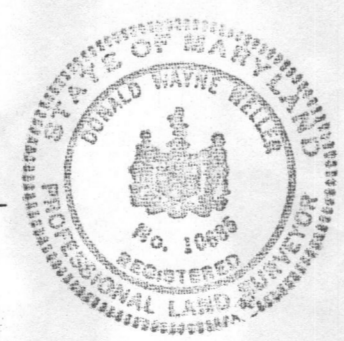
SIGNED PERC CERT 11/7/05



PERC CERTIFICATION

I certify that the locations shown hereon are based on field locations done under my supervision and are correct to the best of my professional knowledge and belief.

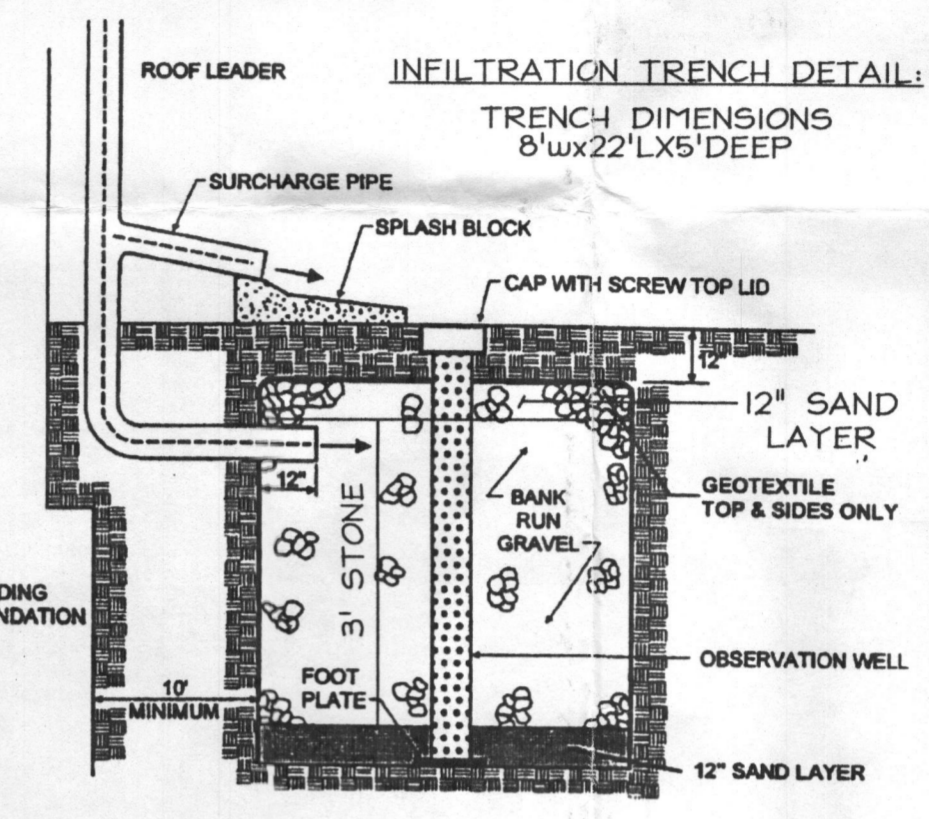
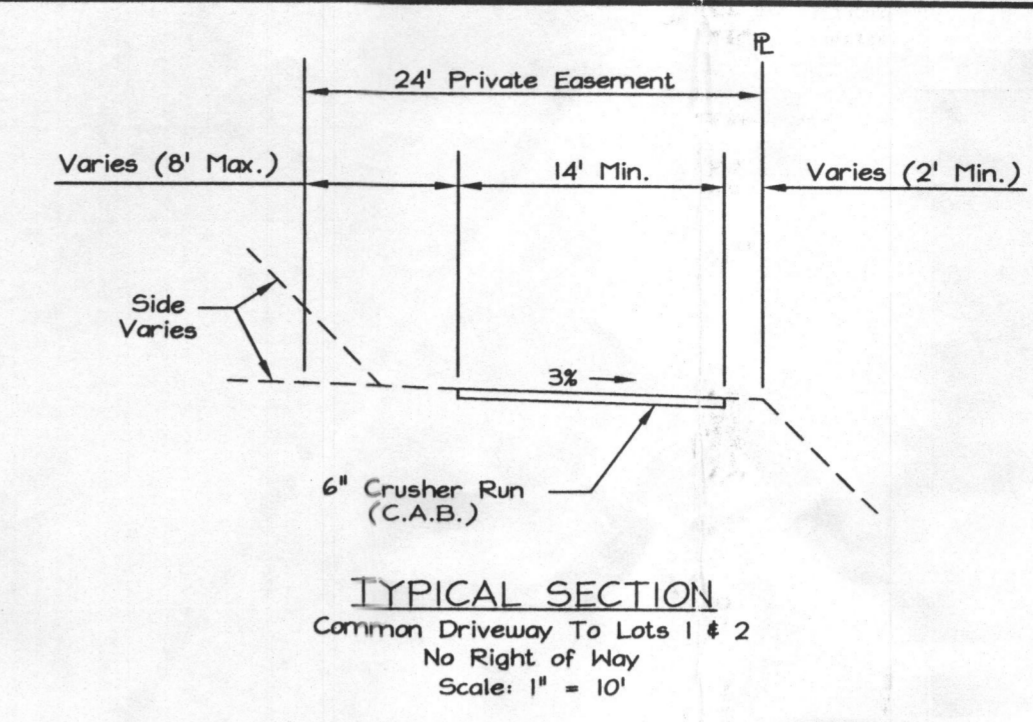
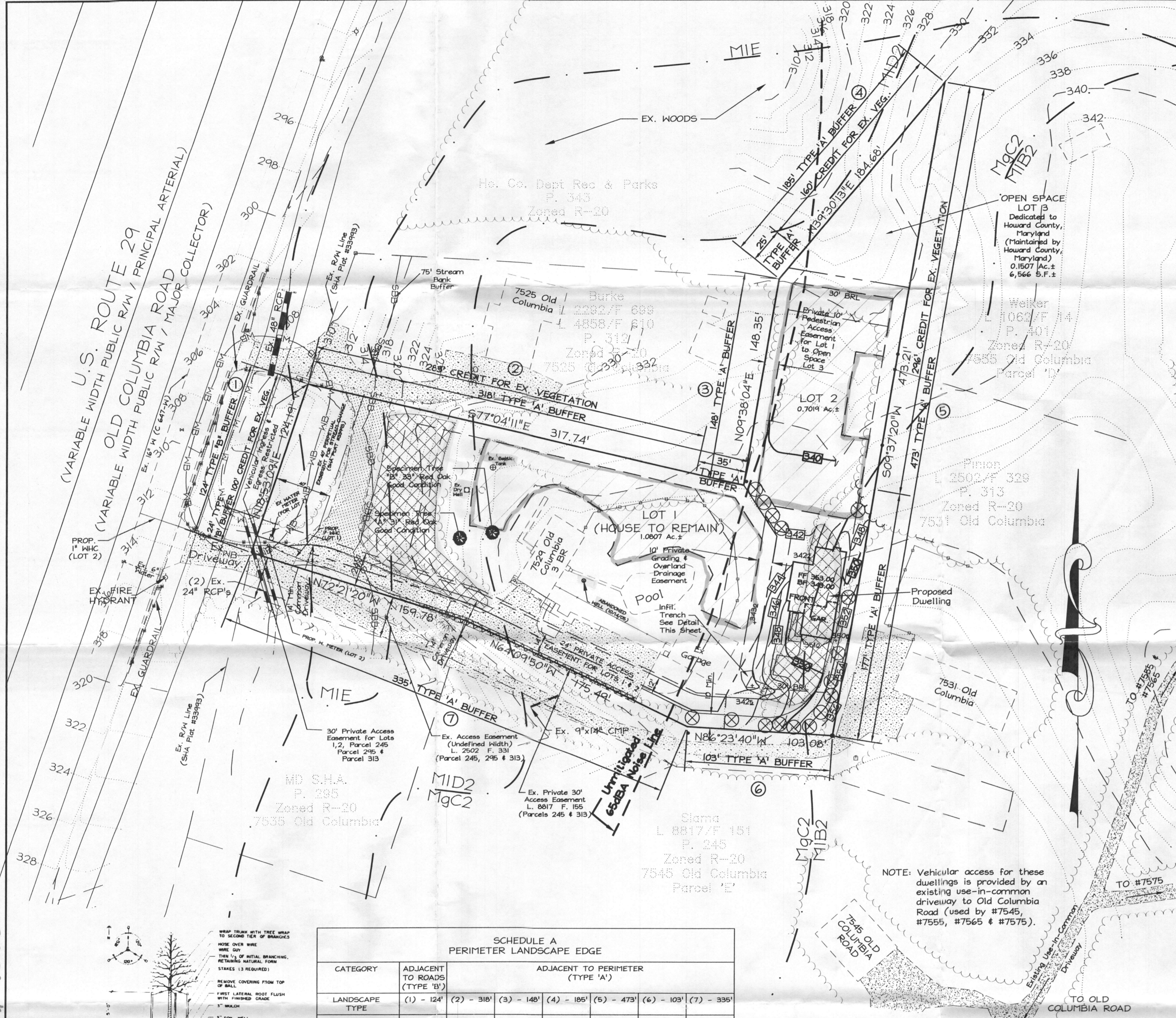
D. Wayne Weller 11/4/05
D. Wayne Weller, Professional Land Surveyor Date
MD Reg. No. 10685



[Symbol] This area designates a Private Sewage Easement of at least 10,000 square feet as required by the Maryland State Department of the Environment for individual sewage 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 adjustments to the private sewage easement. Recordation of a modified sewage easement shall not be necessary.

* No Records Found By Howard County Health Department.

Approved: For Public Water and Private Sewerage
Howard County Health Department
Robert J. Wala 11/7/05
Howard County Health Officer DATE



- NOTES:**
- Existing Zoning: R-20
 - Deed Reference: Liber 976, Folio 139
 - Total Site Area: 1.93 Acres
 - Proposed Number of Lots: 3
 - Proposed open space: 0.15 Acres
 - Proposed public road dedication: 0.0 Acres
 - Total area of proposed lots: 1.93 Acres
 - The topography shown herein in the vicinity of the proposed improvements was field run by LDE, Inc. in February, 2006. The topography shown outside of the proposed improvements is taken from County Aerial orthophotography.
 - Interim individual on-site sewage disposal systems may be utilized in the subdivision for a maximum of one (1) year after an adequate community sewer system becomes available. The existing septic system serving Lot 1 shall be repaired prior to signature approval of the Final Plat.
 - The Lots will be served by public water and private septic systems. Lot 1 is provided with a water house connection from Contract 647-W. Lot 2 will connect to Contract 647-W by a 1" water house connection installed by the Bureau of Utilities under standard fee.
 - The existing dwelling located on lot 1 shall remain.
 - At the time of installation, all shrubs and other plantings herewith listed and approved for this site, shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocation of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved landscape plan may result in denial or delay in the release of Landscape Surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.
 - Vehicle access to Old Columbia Road for Lots 1 & 2 is provided by a 24' wide private access easement within this subdivision and a 30' wide private access easement within adjacent Parcel 245 (owned by the Maryland State Highway Administration). The existing driveway within the subdivision shall be widened to a 14' minimum width.
 - Maintenance access to Open Space Lot 3 is provided through the adjacent Recreation and Parks property (Parcel 343). Lot 1 is provided with a private 10' pedestrian access easement to Open Space Lot 3.
 - Landscape for Lot 2 is provided in accordance with a certified Landscape Plan in accordance with Section 16.124 of the Howard County Code and Landscape Manual. Posting of surety in the amount of \$4800.00 for 16 shade trees shall be deferred until Site Development Plan approval for Lot 2. Lot 1 is exempt since it contains an existing house which is to remain.

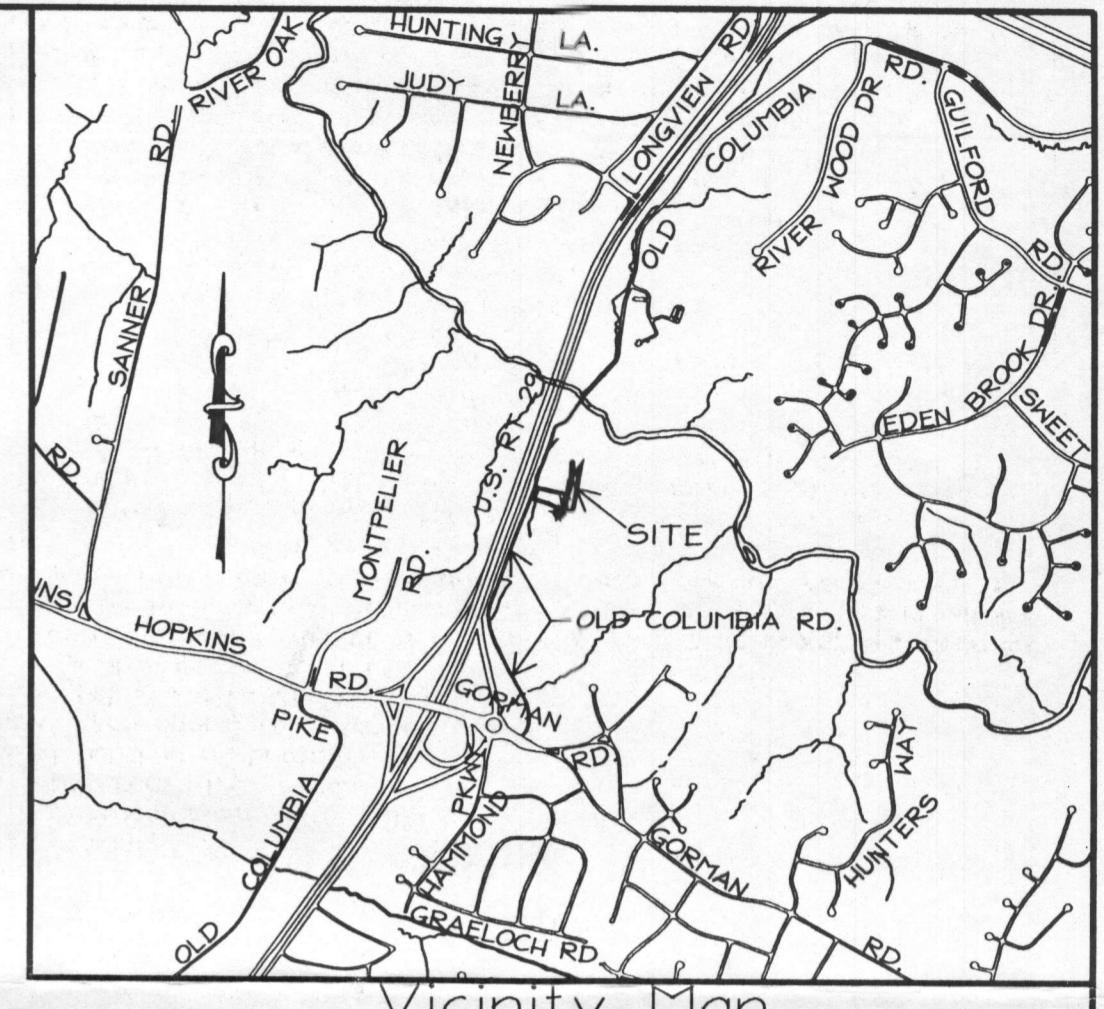
Construction Specifications for INFILTRATION TRENCH:

- The Infil. Trench may not receive run-off until the entire contributing drainage area to the Trench has received final stabilization.
- Heavy equipment and traffic shall be restricted from traveling over the proposed location of the infiltration trench to minimize compaction of the soil.
- Excavate the infiltration trench to the design dimensions. Excavated materials shall be placed away from the trench sides to enhance trench wall stability. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing of the filter fabric during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.
- A Class "C" geotextile or better (see Section 24.0, Material Specifications, 1994 Standards and Specifications for Soil Erosion and Sediment Control, MDE, 1994) shall interface between the trench side walls and between the stone reservoir and gravel filter layers. A partial list of non-woven filter fabrics that meet the Class "C" criteria follows. Any alternative filter fabric must be approved by the plan approval authority.

Amoco 4552	Carriage FX-80S
GEOLON N70	Minifil 180-N
WEBTEC N07	

The width of the geotextile must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. The filter fabric shall be tucked under the sand layer on the bottom of the infiltration trench for a distance of 6 to 12 inches. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the trench open during windy periods. When overlaps are required between rolls, the spill roll should lap a minimum of 2 feet over the downhill roll in order to provide a shingled effect.

- If a 12 inch sand filter layer is placed on the bottom of the infiltration trench, the sand for the infiltration trench shall be washed and meet AASHTO-M-43, Size No. 9 or No. 10. Any alternative sand gradation must be approved by the plan approval authority.
- The stone aggregate should be placed in a maximum loose lift thickness of 12 inches. The gravel (rounded "bank run" gravel) is preferred for the infiltration trench shall be washed and meet one of the following AASHTO-M-43, Size No. 2 or No. 3, Install 12" Top Sand Layer followed by Geotextile Fabric & Topsoil Cover.
- Following the stone aggregate, the filter fabric shall be folded over the ~~stone~~ sand aggregate to form a 6-inch minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.
- Care shall be exercised to prevent natural or fill soils from intermixing with the stone & sand aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.
- VOIDS may occur between the fabric and the excavation sides should be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Therefore, natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides.
- Vertically excavated walls may be difficult to maintain in areas where soil moisture is high or where soft cohesive or cohesionless soils are dominant. These conditions may require laying back of the side slopes to maintain stability.
- PVC distribution pipes shall be Schedule 40 and meet ASTM-D-1785. All fittings shall meet ASTM-D-2729. Performances shall be 3/8 inch in diameter. A perforated pipe shall be provided only within the infiltration trench and shall terminate 1 foot short of the infiltration trench wall. The end of the PVC pipe shall be capped. Note: PVC pipe with a wall thickness classification of SDR-35 meeting ASTM-D-3034 is an acceptable substitute for the Schedule 40 pipe.
- The observation well is to consist of 6-inch diameter perforated PVC Schedule 40 pipe (M 274 OR 778, Type PS-20) with a cap set 6 inches above ground level and is to be located near the longitudinal center of the infiltration trench. The pipe shall have a plastic collar with ribs to prevent rotation when removing the cap. The screw top lid shall be a cleantouch with a locking mechanism or special bolt to discourage vandalism. The depth to the invert shall be marked on the lid. The pipe shall be placed vertically within the gravel portion of the infiltration trench and a cap provided at the bottom of the pipe. The bottom of the cap shall rest on the infiltration trench bottom.



Vicinity Map
Scale 1" = 2000'

LEGEND

- Existing 2' Contour
- Existing 10' Contour
- Proposed Contour
- Existing Treeline
- Proposed Treeline
- Ex. Paved Driveway
- Ex. Pavement to be Removed
- Existing Gravel
- Soils Boundary
- Existing Stream
- 75' Stream Bank Buffer
- Wetland
- 25' Wetland Buffer
- Ex. Well (Abandoned)
- 25% or Greater Slopes
- Proposed Septic (10,000 Sq. Ft.) Recovery Area

SCHEDULE A PERIMETER LANDSCAPE EDGE

CATEGORY	ADJACENT TO PERIMETER (TYPE 'A')						
	(1) - 124'	(2) - 318'	(3) - 148'	(4) - 185'	(5) - 473'	(6) - 103'	(7) - 335'
LINEAL FT. ROAD FRONTAGE/PERIM.	124 L.F.	318 L.F.	148 L.F.	185 L.F.	473 L.F.	103 L.F.	335 L.F.
CREDIT FOR EX. VEGETATION	N/A	283'	0	160'	246'	0	0
CREDIT FOR WALL/FENCE	N/A	NO	NO	NO	NO	NO	NO
NO. OF PLANTS REQUIRED	N/A	1 - Shade	3 - Shade	1 - Shade	3 - Shade	2 - Shade	6 - Shade
NO. OF PLANTS PROVIDED	N/A	1 Shade	3 - Shade	1 - Shade	3 - Shade	2 - Shade	6 - Shade

16 SHADE TREES REQUIRED

LANDSCAPE SCHEDULE

NO.	SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
16	⊗	RED MAPLE	ACER RUBRUM	2 1/2"-3" C.I.	B & B

LANDSCAPE PERIMETER TABLE

No.	Perimeter Length	Buffer Type	Adjacent Land use
1	124 L.F.	'B'	SHA R/W
2	318 L.F.	'A'	SFD
3	148 L.F.	'A'	SFD
4	185 L.F.	'A'	HO. CO. PARKS & REC.
5	473 L.F.	'A'	SFD
6	103 L.F.	'A'	SFD
7	335 L.F.	'A'	SFD
Total	1686 L.F.		

SOILS LEGEND

HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION	REMARKS
D	Ba	Baile Silt Loam	
B	M1B2	Manor loam, 3% - 8% slopes, moderately eroded.	
B	MgC2	Manor Gravelly loam, 8% - 15%, moderately eroded.	
B	MD2	Manor loam, 15% - 25% slopes, Moderately eroded.	
B	M1E	Manor loam, 25% - 45% slopes.	

DEVELOPER'S / BUILDER'S CERTIFICATION

I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Code and the Howard County Landscape Manual. I further certify that upon completion a Certificate of Landscape Installation, accompanied by an executed One Year Guarantee of Plant Materials will be submitted to the Department of Planning and Zoning.

SIGNATURE OF DEVELOPER / BUILDER: EFRAIN R. LARENAS
DATE: _____

REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX(410)715-9540

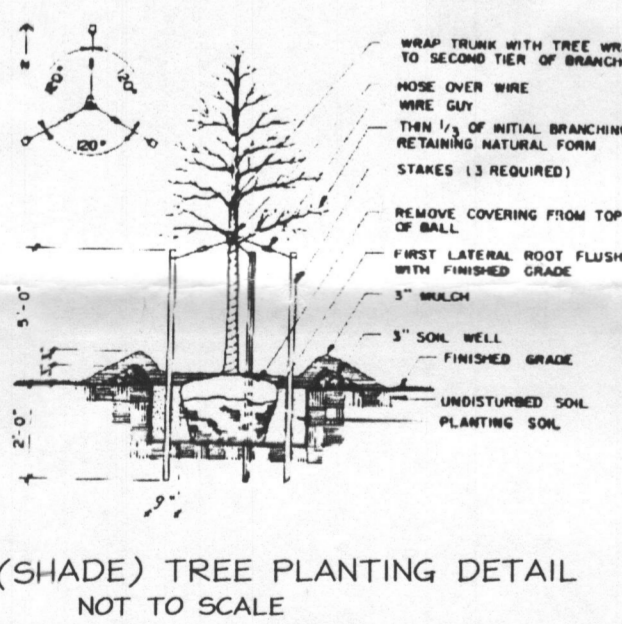
DESIGNED: S.W.C.
DRAWN: G.D.W.
CHECKED: S.W.C.
DATE: 12/2006

Supplemental / Landscape Plan
Lots 1 & 2 and Open Space Lot 3
Larenas Property
Tax Map #41 Grid #17 Parcel 270
6th Election District - Howard County, Maryland
7529 Old Columbia Rd
Laurel, MD 20723

SCALE: 1" = 40'
DRAWING: 1 of 1
JOB NO.: 04-026.1
FILE NO.: 04-026.1

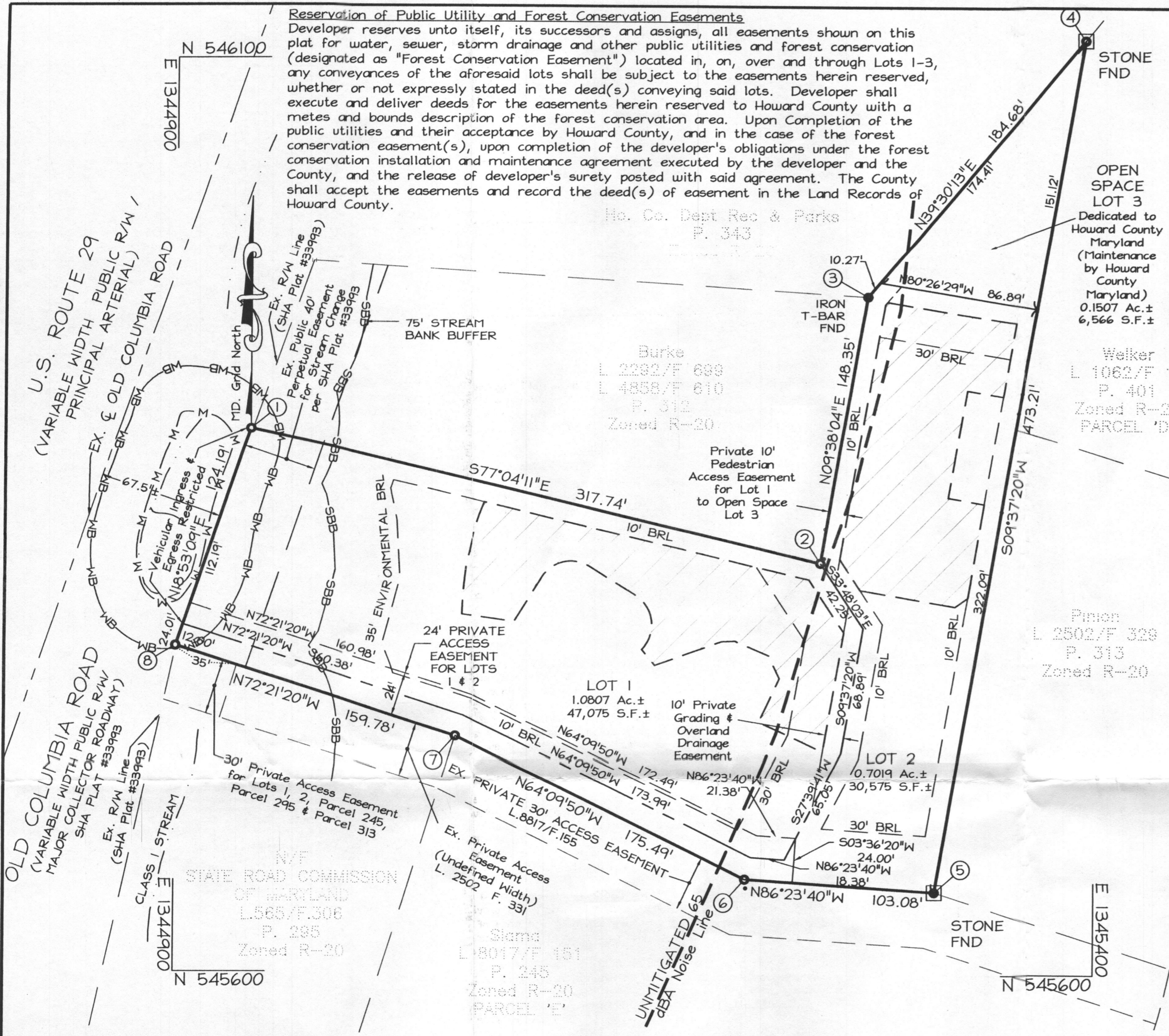
OWNER: Efrain R. Larenas Et Al
750 Flamewood Dr.
Clarksville, MD 21024

Sign Book



APPROVED: DEPARTMENT OF PLANNING AND ZONING

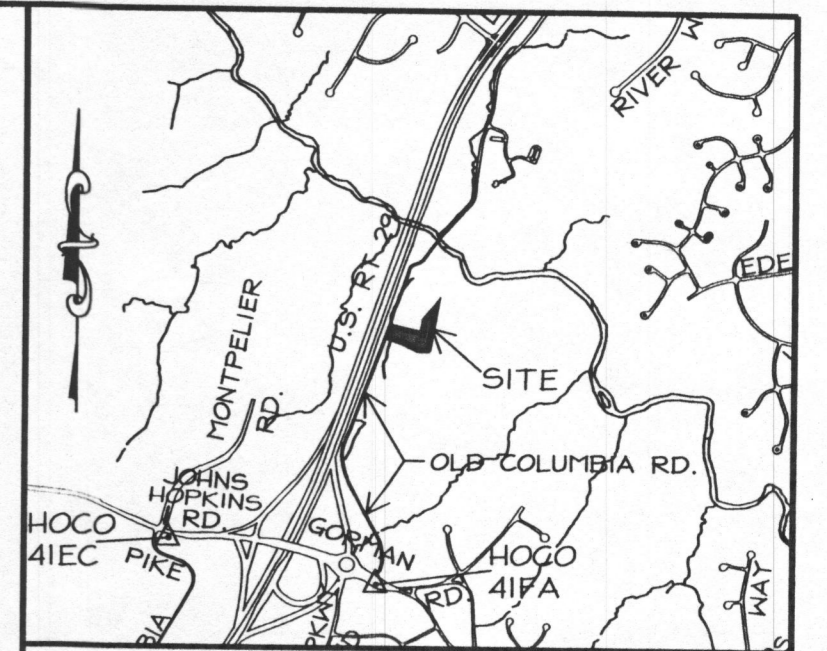
CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____
CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____



Reservation of Public Utility and Forest Conservation Easements
 Developer reserves unto itself, its successors and assigns, all easements shown on this plat for water, sewer, storm drainage and other public utilities and forest conservation (designated as "Forest Conservation Easement") located in, on, over and through Lots 1-3, any conveyances of the aforesaid lots shall be subject to the easements herein reserved, whether or not expressly stated in the deed(s) conveying said lots. Developer shall execute and deliver deeds for the easements herein reserved to Howard County with a metes and bounds description of the forest conservation area. Upon completion of the public utilities and their acceptance by Howard County, and in the case of the forest conservation easement(s), upon completion of the developer's obligations under the forest conservation installation and maintenance agreement executed by the developer and the County, and the release of developer's surety posted with said agreement. The County shall accept the easements and record the deed(s) of easement in the Land Records of Howard County.

The requirements § 3-108, The Real Property Article, Annotated Code of Maryland, 1988 replacement volume, (as supplemented) as far as they relate to the making of this plat and the setting of markers have been complied with.

D. Wayne Weller Professional Land Surveyor MD Reg. No. 10685 Date _____
 Efrain R. Larenas Date _____
 Leon S. Larenas Date _____
 George A. Parsons Date _____



VICINITY
 SCALE: 1"=2000'

General Notes

- The boundary shown hereon is based on a field run boundary survey performed by LDE, Inc. dated Feb., 2006.
- These Coordinates are based on NAD '83, Maryland State Plane Coordinate System, as projected from Howard County control stations 41EC & 41FA.
- Stone or Concrete Monument Found or Set
 Pipe or Rebar Found or Set
- Deed References: Liber 976 Folio 139
- Subject property is zoned R-20 per 2/02/2004 Comprehensive Zoning Plan and Comp-Lite Zoning Regulations dated 7/28/06.
- BRL denotes Building Restriction Line.
- All areas shown on this plat are +/-, more or less.
- 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 and not onto the pipestem lot driveway.
- Driveway(s) shall be provided prior to residential occupancy to insure safe access for fire and emergency vehicles per the following minimum requirements: a) Width - 12' (14 feet serving more than one residence). b) Surface - 6 inches of compacted crusher run base with tar and chip coating. c) Geometry - Maximum 14% grade, maximum 10% grade change and minimum of 45 foot turning radius. d) Structures (culverts/bridges) capable of supporting 25 gross tons (H25 loading). 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) Maintenance sufficient to insure all weather use.
- The Maintenance Agreement for the shared driveway for Lots 1 & 2 and the Maintenance Agreement for the shared driveway for Lots 1, 2 and Parcels 245, 245 & 313 shall be recorded concurrently with this plat among the Land Records of Howard County, Maryland.
- There is an existing dwelling located on Lot 1 to remain. No new buildings, extensions or additions to the existing dwelling are to be constructed at distances less than the zoning regulations require.
- No non-tidal wetlands areas or 100 year floodplain areas are located within this subdivision.
- No grading, removal of vegetative cover or trees, paving and new structures shall be permitted within the limits of wetlands, stream(s), or their required buffers, floodplain and forest conservation easement areas.
- Landscaping for Lot 2 is provided in accordance with a certified Landscape Plan in accordance with Section 16.124 of the Howard County Code and Landscape Manual. Posting of surety in the amount of \$4800.00 for 16 shade trees shall be deferred until site development plan approval for Lot 2. Lot 1 is exempt since it contains an existing house which is to remain.
- The existing septic systems for these lots shall be abandoned in accordance with Health Department procedures at the time public sewer is available.
- These areas designate a private sewage easement of at least 10,000 square feet 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 variances for encroachments into the private sewage easement. Recordation of a modified sewage easement shall not be necessary.
- The lots shown hereon comply with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
- Stormwater management for Lot 2 will be met via a dry well and disconnection credits.
- Water service to Lot 2 will be granted under the provisions of Section 18.122.B of the Howard County Code.
- Public water allocation will be granted at the time of issuance of the building permit if capacity is available at that time.
- Interim individual on-site sewage disposal systems may be utilized in the subdivision for a maximum of one (1) year after an adequate community sewer system becomes available. The existing septic system serving Lot 1 shall be repaired prior to signature approval of the Final Plat.
- The forest conservation obligation for this project will be met through and payment of a fee-in-lieu for 0.11 acres of plantings or \$2,396.00.
- The Residue (Lot 1) was excluded from the Forest Conservation Calculations and Requirements with this Subdivision Plat, however, upon further resubdivision of Lot 1, then separate Forest Conservation Calculations and Requirements will be provided based on its acreage size.
- This subdivision plan is subject to the amended Fifth Edition of the Subdivision and Land Development Regulations per Council Bill No. 45-2003 effective October 2nd, 2003.
- The existing well which once served the existing house on Lot 1 was sealed and abandoned by a licensed Well Driller on October 14, 2005.
- The 65 dBA noise contour line drawn on this subdivision plan is advisory as required by the Howard County Design Manual, Chapter 5, revised February, 1992 and cannot be considered to exactly locate the 65 dBA noise exposure. The 65 dBA noise line was established by Howard County to alert developers, builders and future residents that areas beyond this threshold may exceed generally accepted noise levels established by the U.S. Department of Housing and Urban Development.
- The Open Space requirement for this subdivision is provided by dedication of Open Space Lot 3 to Howard County, Maryland. (Maintenance by Howard County, Maryland).
 Open Space Required R-20 Zone = 6% (1.9333 Ac.) = 0.1160 Ac.
 Open Space Provided = 0.1507 Ac.

Ho. Co. Dept Rec & Parks
 P. 343

Burke
 L 2292/F 699
 L 4858/F 610
 P. 312
 Zoned R-20

Weller
 L 1062/F 14
 P. 401
 Zoned R-20
 PARCEL 'D'

Pinion
 L 2502/F 329
 P. 313
 Zoned R-20

OWNER: Efrain Larenas et al
 7501 Flamewood Drive
 Clarksville, MD 21029

MINIMUM LOT SIZE TABULATION			
Lot No.	Gross Area	Pipestem	Minimum Lot Size
2	0.7019 Ac.	0.0976 Ac.	0.6043 Ac.

COORDINATE TABLE		
	NORTHING	EASTING
1	545893.7244	1344940.6619
2	545822.6249	1345250.3444
3	545968.8850	1345275.1731
4	546111.3797	1345392.6521
5	545644.8252	1345313.5534
6	545651.3077	1345210.6795
7	545727.7862	1345052.7308
8	545776.2187	1344900.4631

AREA TABULATIONS

- Total number of lots to be recorded: 3
 a) Buildable: 2
 b) Non-Buildable: 0
 c) Open Space: 1
 d) Preservation Parcels: 0
- Total area of lots to be recorded: 1.9333 Ac. ±
 a) Buildable: 1.7826 Ac. ±
 b) Non-Buildable: 0 Ac. ±
 c) Open Space: 0.1507 Ac. ±
 d) Preservation Parcel: 0.0000 Ac. ±
- Total area of road right-of-way to be recorded: 0 Ac. ±
- Total area of subdivision to be recorded: 1.9333 Ac. ±

APPROVED: For Public Water and Private Sewerage Systems
 Howard County Health Department.

Howard County Health Officer _____ Date _____

APPROVED: Howard County Department of Planning and Zoning.

Director _____ Date _____
 Chief, Development Engineering Division _____ Date _____

SURVEYOR'S CERTIFICATE

I hereby certify that the final plat shown hereon is correct; that it is a subdivision of all of the lands conveyed by Glenn Michael Farina to Efrain R. Larenas, Leon S. Larenas and George A. Parsons by deed dated November 29, 1979 and recorded among the Land Records of Howard County, Maryland in Liber 976 Folio 139; and that all monuments are in place or will be in place prior to the acceptance of the streets in the subdivision by Howard County as shown, in accordance with the Annotated Code of Maryland, as amended.

D. Wayne Weller Professional Land Surveyor MD Reg. No. 10685 Date _____

OWNER'S CERTIFICATE

We, Efrain R. Larenas, Leon S. Larenas and George A. Parsons owners of the property shown and described hereon, hereby adopt this plan of subdivision, and in consideration of the approval of this final plat by the Department of Planning and Zoning, establish the minimum building restriction lines and grant unto Howard County, Maryland, its successors and assigns:
 (1) The right to lay, construct and maintain sewers, drains, water pipes and other municipal utilities and services, in and under all roads and street right-of-ways and the specific easement areas shown hereon;
 (2) The right to require dedication for public use the beds of the streets and/or roads and floodplains and open space where applicable, and for good and other valuable consideration, hereby grant the right and option to Howard County to acquire the fee simple title to the beds of the streets and/or roads and floodplains, storm drainage facilities and open space where applicable;
 (3) The right to require dedication of waterways and drainage easements for the specific purpose of their construction, repair, and maintenance; and
 (4) That no building or similar structure of any kind shall be erected on or over the said easements and rights-of-ways.
 Witness by my hand this _____ day of December, 2006.

Efrain R. Larenas _____ Leon S. Larenas _____
 Witness _____ George A. Parsons _____

RECORDED AS PLAT NUMBER _____
 ON _____
 AMONG THE LAND RECORDS OF HOWARD COUNTY, MD.

LARENAS PROPERTY
 Lots 1 & 2 and Open Space Lot 3
 Sheet 1 of 1

Tax Map No. 41 - Grid No. 17 - Parcel 270
 6th Election District - Howard County, Maryland Scale: 1"=50'
 Date: December, 2006

Previous Submittals: _____ Job # 04-026.1

LDE INC.

Planning/Engineering/Surveying
 9250 Ramsey Road Suite 106/Columbia, Maryland/21045
 (410)715-1070 (Baltimore) (301)596-3424/Wash./(410)715-9540 FAX

SEWAGE SYSTEM DESIGN DATA

- Invert at Foundation Wall: 340.50 Basement Service
- 1500 Gallon Septic Tank (4 Bedrooms)
Provide Manhole to Finished Grade
A. Ex. Ground Over Tank: 342.00
B. Prop. Grade Over Tank: 342.00
C. Invert In: 339.30
D. Invert Out: 339.00
- 1500 Gallon Pump Pit
A. Ex. Ground Over Pit: 341.70
B. Prop. Grade Over Pit: 341.70
C. Invert In: 338.70
D. Invert Out: 339.20
- Distribution Box: (Provide 4 Outlets Minimum)
A. Ex. Ground Over Box: 346.00
B. Prop. Grade Over Box: 346.00
C. Invert In: 343.00

NOTE: Trench design may be revised at time of installation based on site conditions.

NOTES:

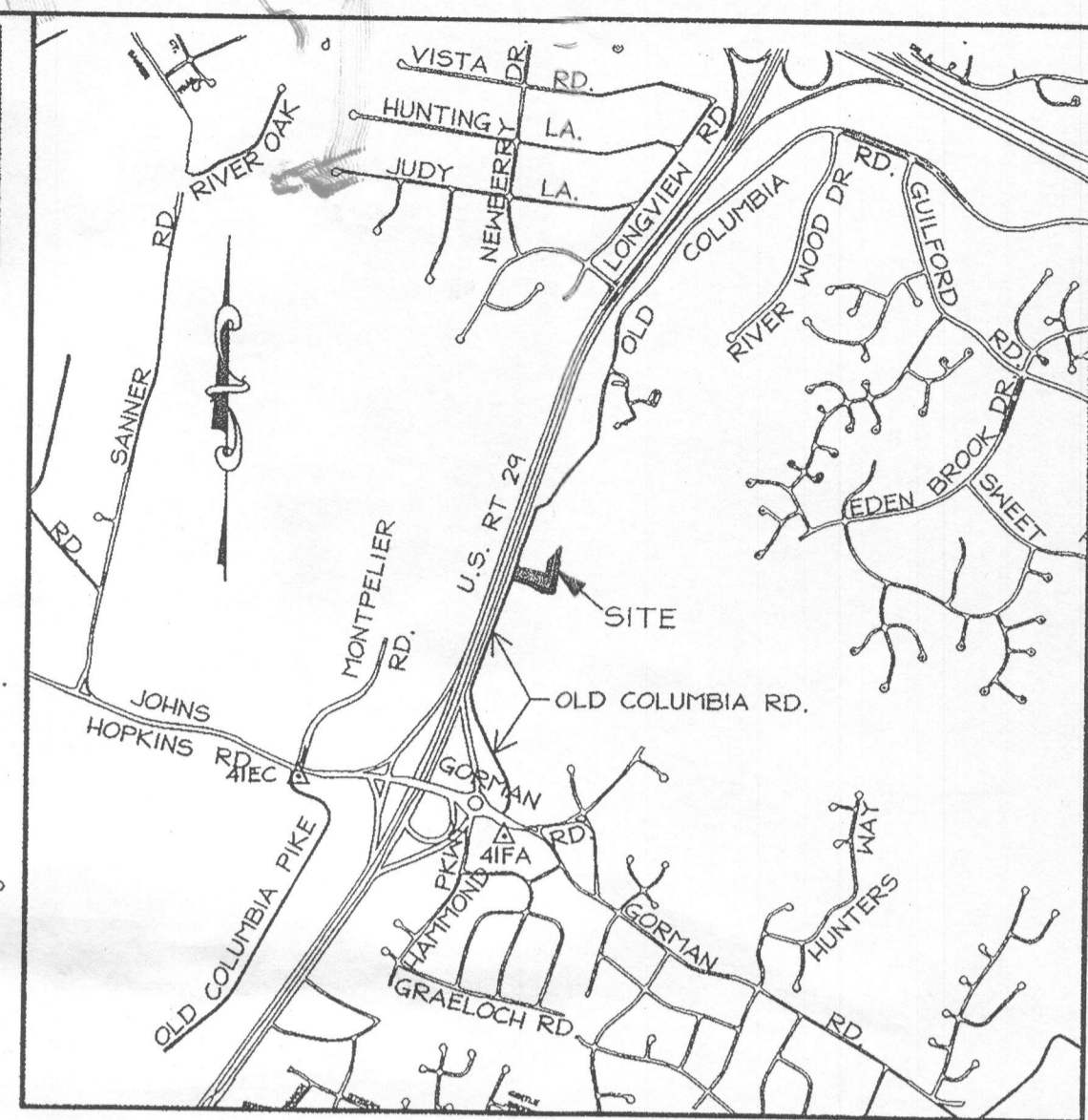
- The proposed septic system for this lot requires a pump.
- Pump chamber to be a minimum 1500 gallon top seamed pump pit with single effluent pump. Pump shall be equipped with audible and visual alarm system for high water and pump malfunction. Alarm system shall be installed on a separate electrical circuit. Install check valves as required.
- Provide manhole cleanout to finished grade at proposed septic tank and the pump chamber.
- Details and specification of the proposed pump within the pump pit to be supplied by the contractor for review and approval by the Howard County Health Department prior to issuance of a septic permit.

elutions ok GAC

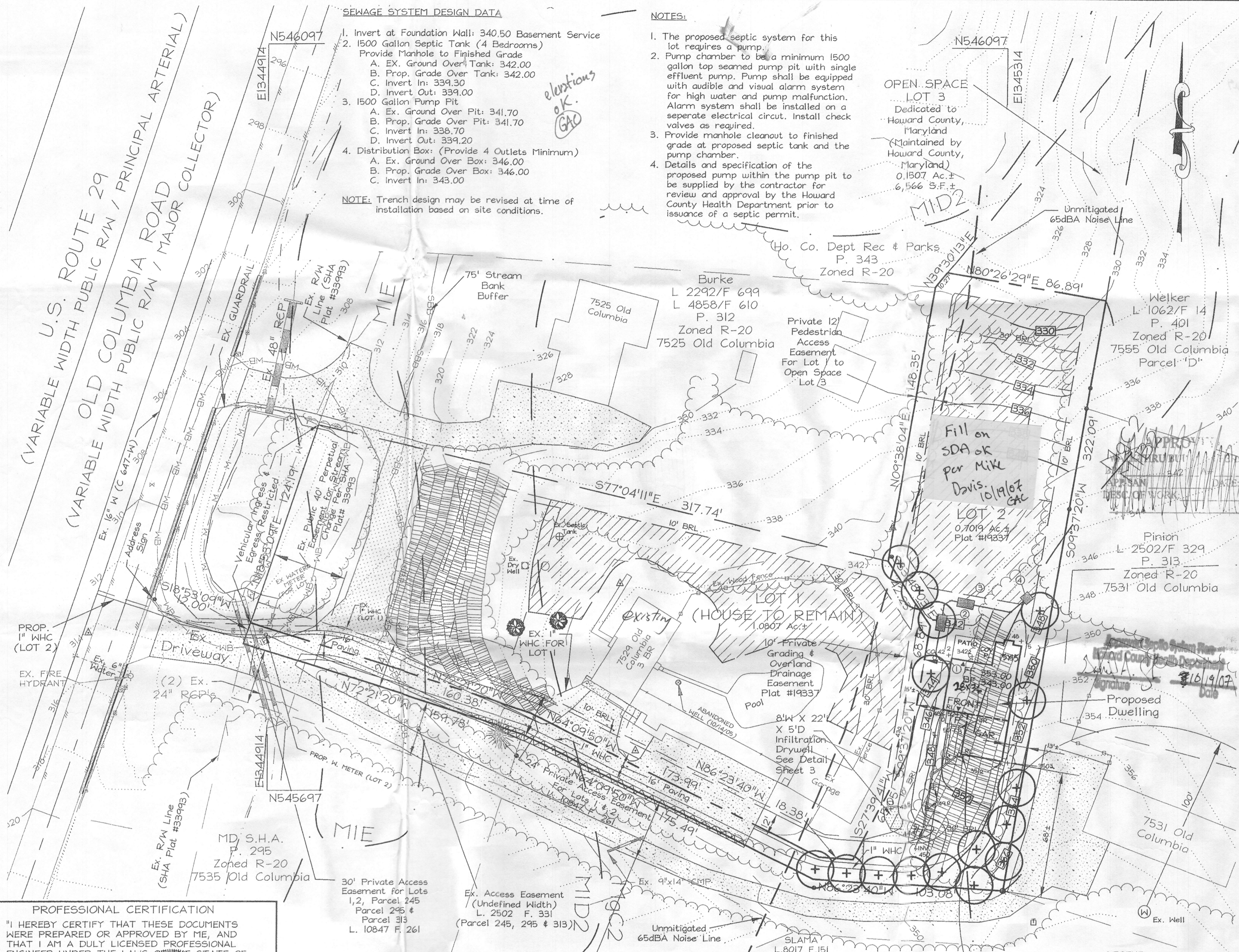
INDEX OF SHEETS	
SHEET NO	TITLE
1	Site Development Plan
2	Sediment & Erosion Control Plan
3	Stormwater Management, Sediment Control and Landscape Details

GENERAL NOTES:

- The subject property is zoned R-20 per the 2/2/04 Comprehensive Zoning Plan and Comp. Lite Zoning Regulations dated 7/29/06.
- All construction shall be in accordance with the latest Standards and Specifications of Howard County Design Manual Vol. IV and current MSHA Standards & Specifications.
- Project Background:
Location: Laurel
Tax Map: Map 41
Top Map Parcel: 270
Grid: 17
Election District: 6th
Current Deed Reference: L.976 F.134
- The Boundary shown hereon is based on a field run boundary by LDE, Inc. dated February, 2006.
- The topography shown hereon was field run by LDE, Inc. in February, 2006. Coordinate System (NAD 83) as projected from Howard County Control Stations No. 415C & 415F.
- Any damage caused by the contractor to existing public right-of-way, existing paving, existing curb and gutter, existing utilities, etc. shall be corrected at the contractor's expense.
- The existing utilities shown hereon are located from field surveys and construction drawings of record. The contractor shall locate existing utilities to his own satisfaction and well in advance of any construction activities. Additionally, the contractor shall take all necessary precautions to protect all existing utilities and any damage incurred to utilities or existing features due to contractor's operation shall be repaired immediately at the contractor's expense.
- There may be additional utilities not shown on these plans. The engineer assumes no responsibility for utility locations not shown and it shall be the responsibility of the contractor to verify the locations of all existing utilities within the limits of construction and notify the engineer of any discrepancies, prior to the start of construction.
- Site Analysis Data:
a. Total Project Area: 0.7019 Acres
b. Area of Plan Submission: 0.7019 Acres
c. Limit of Disturbed Area: 0.48 Acres
d. Present Zoning Designation: R-20
e. Proposed Site and Structure Use: One (1) SFD house
f. Building coverage of site: 1220 s.f. (0.020 Ac) 4.0% of site area
g. Applicable DPZ File References: WP07-54, F06-189
- Vehicle access to the subject property is provided by a 24' wide private access easement within adjacent Parcel 295 (owned by the Maryland State Highway Administration). The existing driveway within the subdivision shall be widened to a 16' minimum width where practical.
- Maintenance access to Open Space Lot 3 is provided through the adjacent Recreation and Parks property (Parcel 343). Lot 1 is provided with a private 12' pedestrian access easement to Open Space Lot 3. Howard County shall not be responsible for maintenance of the shared driveway to Lots 1 and 2.
- In accordance with Section 129 of the Howard County Zoning Regulations, any window, chimney or exterior stairways not more than 16 feet in width may project not more than 4 feet into any setbacks, porches or enclosed open or enclosed may project not more than 10 feet into the front or rear yard setbacks.
- For flag or pipelstem lots, refuse collection, snow removal and road maintenance are provided to the junction of the flag or pipelstem and road right-of-way and not onto the lot driveway.
- Site Architectural Plans for building dimensions and design details prior to stakeout for construction. It shall be the Architect's/Builder's responsibility to provide LDE, Inc. with the most recent set of house plans prior to construction stakeout.
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Landscape Manual, shall be provided as shown on this Site Development Plan. Financial security in the amount of \$4800.00 for 16 shade trees on Lot 2 shall be posted with the Developers Agreement under this Site Development Plan (SDP 07-107).
- There are no wetlands, streams, stream buffers, steep slopes or 100 year floodplain within the boundary of this lot.
- The contractor or developer shall contact the Construction Inspection Division 24 hours in advance of commencement of work at (410) 313-1800.
- The existing driveway shall be upgraded to the use-in-common driveway standards as required by the Howard County Design Manual prior to residential occupancy for any new dwellings to insure safe access for fire and emergency vehicles per the following minimum requirements:
a. Width - 12' (16' serving more than one residence);
b. Surface - 6" of compacted crusher run base with top and chip coating (1-1/2" min.);
c. Geometry - Max. 14% grade, max. 10% grade change minimum 45 ft. radius;
d. Structures (culverts/bridges) - capable of supporting 25 gross tons (H25 loading);
e. Drainage Elements - capable of safely passing 100 year Flood with no more than 1 ft. depth over driveway surface;
f. Maintenance - sufficient to insure weather use.
- These areas designate a private sewage easement of at least 10,000 square feet 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 variances for encroachments into the private sewage easement. Reconnection of a modified sewage easement shall not be necessary.
- The lot shown hereon complies with the minimum lot area and ownership width as required by the Maryland State Department of the Environment.
- Forest conservation obligations in accordance with Section 16.122 of the Forest Conservation Manual was fulfilled by a fee-in-lieu for 0.11 acres of required afforestation in the amount of \$3,583.70 which was paid to the Forest Conservation Fund (see F06-189).
- This subdivision plan is subject to the amended Fifth Edition of the Subdivision and Land Development Regulations per Council Bill No. 45-2003 effective October 2nd, 2003.
- The 65 dBA noise contour line drawn on this subdivision plan is advisory as required by the Howard County Design Manual, Chapter 5, revised February, 1992 and cannot be considered to exceed generally accepted noise levels established by the U.S. Department of Housing and Urban Development.
- Any damage to Public "Right-of-Ways" or paved public roads shall be repaired immediately at the contractor's expense in accordance with the Howard County Standards and Specifications and / or current MSHA Standards and Specifications.
- All fill shall be rolled to a minimum degree of compaction of 95% of the dry unit weight as determined by AASHTO T-180.
- Earthwork quantities shown on this plan are estimated and should not be used for bid purposes. Contractors should perform independent earthwork analysis for bid purposes.
- Deviations from these plans and specifications without prior written consent of the civil engineer may cause the work to be unacceptable.
- The dimensional distances shall govern if scaled and dimensional distances on this plan are found to be in disagreement.
- See sheet 3 for Landscaping Schedule 'A', Planting Details, Landscape Notes and Landscape Perimeter Summary.
- The plot is subject to WP07-54, approved on 1/17/07, waiving Section 16.120(b)(5) for noise mitigation subject to requiring future lots to have useable rear yards without noise mitigation lines.
- The plot is subject to a waiver to Section 5.2.9 of Design Manual Volume III, on 1/9/07, the Development Engineering Division Chief approved the request not to require noise mitigation on the existing lot (Lot 1).
- The establishment of Lot 2 was approved on 2/6/07 as a "Single Family Lot Exemption" of the Adequate Public Facilities Ordinance requirements in accordance with Section 16.107.b.1.v of the Howard County Subdivision and Land Development Regulations.



VICINITY MAP
1" = 2000'



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. 101847 F. 261 EXPIRATION DATE: 6/30/09."
Bruce D. Burton 9/4/07
SIGNED: BRUCE D. BURTON

DEVELOPER'S / BUILDER'S CERTIFICATION
I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I further certify that upon completion, a letter of notice, accompanied by an executed one year guarantee of plant materials, and a copy of this plan will be submitted to the Department of Planning and Zoning.
Jim Meyer 9/4/07
SIGNATURE OF DEVELOPER / BUILDER DATE

APPROVED: For Public Water and Private Sewerage Systems
Howard County Health Department
Bruce D. Burton 9/20/2007
Howard County Health Officer Date

SOILS LEGEND			
HYDROLOGIC SOIL GROUP	SOIL SYMBOL	DESCRIPTION	REMARKS
D	Ba	Baile Silt Loam	
B	M1B2	Manor loam, 3% - 8% slopes, moderately eroded.	
B	MgC2	Manor Gravelly loam, 8% - 15%, moderately eroded	
B	M1D2	Manor loam, 15% - 25% slopes, Moderately eroded.	
B	M1E	Manor loam, 25% - 45% slopes,	

LEGEND

Existing 2' Contour	Existing Stream
Existing 10' Contour	75' Stream Bank Buffer
Proposed Contour	Wetland
Existing Treeline	25' Wetland Buffer
Proposed Treeline	Ex. Well (Abandoned)
Ex. Paved Driveway	25' or Greater Slopes
Ex. Pavement to be Removed	Proposed Septic (10,000 Sq. Ft.) Recovery Area
Existing Gravel	
Soils Boundary	

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.
Jim Meyer 9-7-07
NATURAL RESOURCE CONSERVATION SERVICE DATE

ENGINEER'S CERTIFICATE
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Bruce D. Burton 9/4/07
SIGNATURE OF ENGINEER DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
John R. Robertson 9-7-07
HOWARD SOIL CONSERVATION DISTRICT DATE

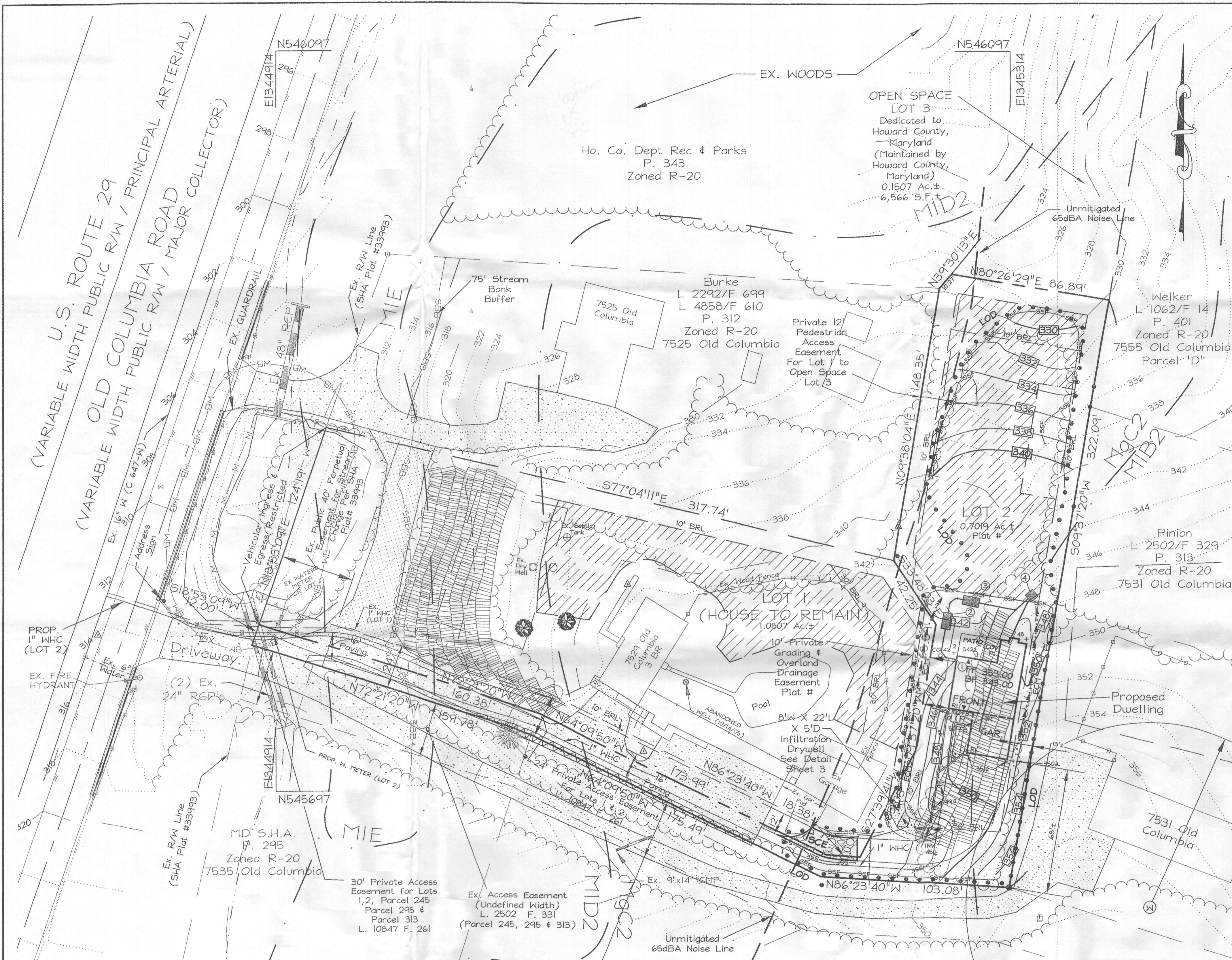
DEVELOPER'S CERTIFICATE
"I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I/WE ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR DESIGNATED AGENTS, AS ARE DEEMED NECESSARY."
Bruce D. Burton 9/4/07
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
Frank A. Guyer 2/2/10
DIRECTOR DATE
Cindy Hamm 9/29/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE
John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

ADDRESS CHART			
Lot No.	Street Address		
2	7527 Old Columbia Road		
Property Name:	Larenas Property	Section	Lot No. 2
Plot Ref. Plot #19337	Grid No. 17	Zoning R-20	Tax Map No. 41
Water Code E16		Election District 6th	Census Tract 606802
		Sewer Code	N/A

LDE Inc. Engineers, Surveyors, Planners 9230 Runway Road, Suite 106 Columbia, Maryland - 21045 (410) 715-1070 - (301) 596-3424 - FAX (410) 715-9340		
DESIGNED	BDB	SITE DEVELOPMENT PLAN
DRAWN	STB	LOT 2 LARENAS PROPERTY
CHECKED	BDB	6TH ELECTION DISTRICT HOWARD COUNTY, MD
DATE	9/2007	PREVIOUS SUBMITTALS: WP07-54, F06-189
OWNER/DEVELOPER:	EFFRAIN R. LARENAS, ET AL 7501 Firnewood Drive Clarksville, MD 21029	SCALE: 1" = 30'
		DRAWING: 1 OF 3
		JOB NO.: 04-026.2
		FILE NO.: SDP-07-107

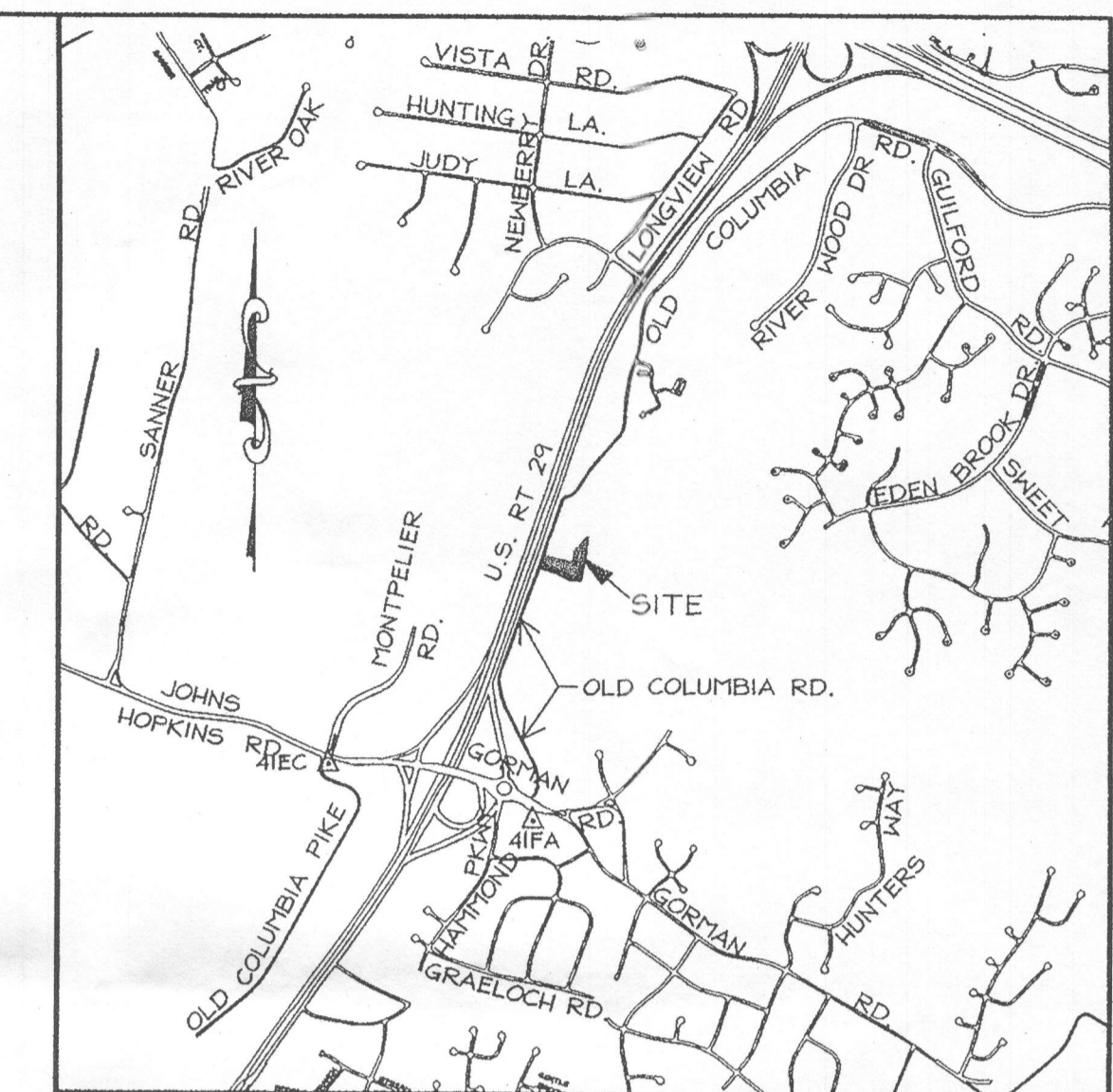
FOIA-026-2449-041-026-2-507-Ann-Layout-8/29/2007 15:45:15 PM



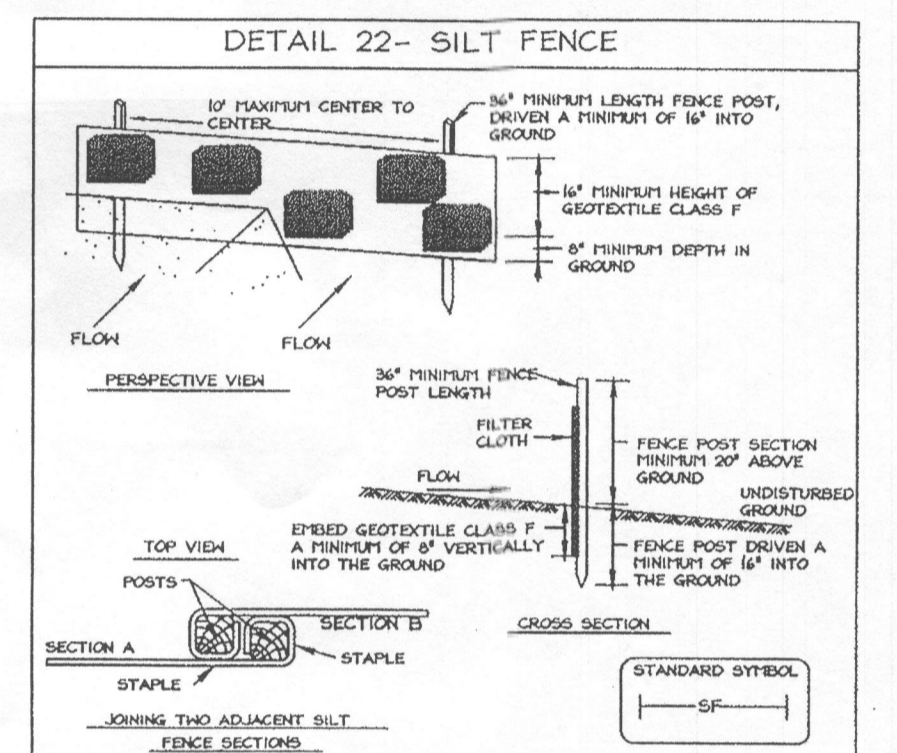
**HOWARD SOIL CONSERVATION DISTRICT
STANDARD SEDIMENT CONTROL NOTES**

- A minimum of 48 hours notice must be given to the Howard County Department of Inspections, Licenses and Permits, Sediment Control Division prior to the start of any construction (203-1855).
- All vegetative and structural practices are to be installed according to the provisions of this plan and are to be in conformance with the most current "MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", and revisions thereto.
- Following initial soil disturbance or redistribution, permanent or temporary stabilization shall be completed within 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 5:1. 7M days as to all other disturbed or graded areas on the project site. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 7, of the HOWARD COUNTY DESIGN MANUAL, Storm Drainage.
- All disturbed areas must be stabilized within the time period specified above in accordance with the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL (Section G) for permanent seeding, sod, temporary seeding, and mulching. Temporary stabilization with mulch alone can only be done when recommended seeding rates do not allow for proper germination and establishment of grasses.
- All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- Site Analysis:

Total Area of Site	0.7019 Acres ±
Area Disturbed	0.242 Acres ±
Area to be roofed or paved	0.38 Acres ±
Area to be vegetatively stabilized	292 Cu. Yds.
Total Cut	280 Cu. Yds.
Total Fill	280 Cu. Yds.
Offsite waste area location	N/A
- Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance.
- Additional sediment control must be provided, if deemed necessary by the Howard County Sediment Control Inspector.
- On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- Transects for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.



VICINITY MAP
1" = 2000'



Construction Specifications

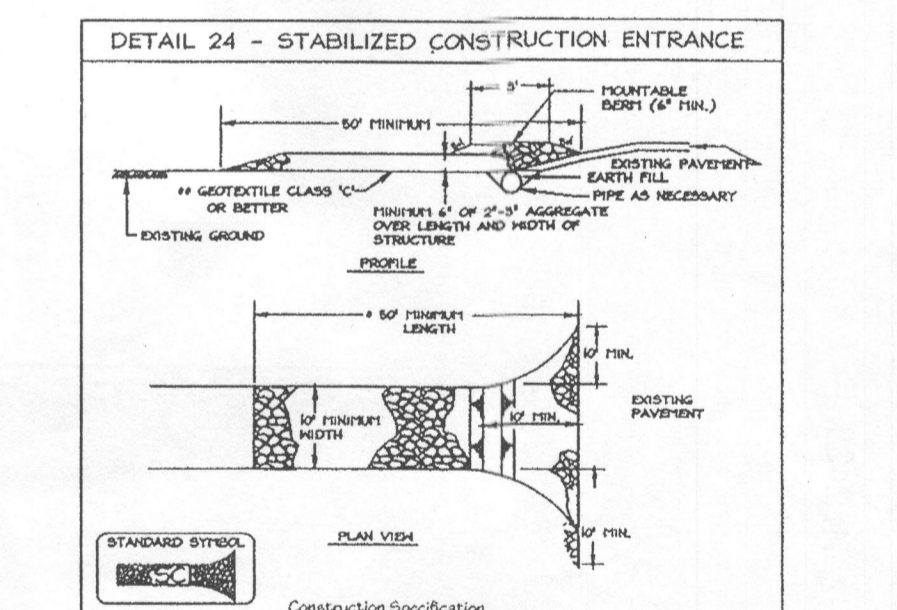
- Fence posts shall be a minimum of 2x4" long above 18" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum) cut, or 3/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard I or U section weighing not less than 100 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test: MSMT 909
Tensile Modulus	20 lbs/in (min.)	Test: MSMT 909
Flow Rate	0.25 gal/F ² /minute (max.)	Test: MSMT 322
Filtering Efficiency	75% (min.)	Test: MSMT 522
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bungee occur or when sediment accumulation reached 50% of the fabric height.

U.S. DEPARTMENT OF AGRICULTURE / MARYLAND DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES / HOWARD COUNTY DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES / SOIL CONSERVATION SERVICE / E - 16 - 3 / WATER MANAGEMENT ADMINISTRATION

LEGEND

Existing 2' Contour
Existing 10' Contour	-----
Proposed Contour	-----
Existing Treeline	~~~~~
Proposed Treeline	~~~~~
Ex. Paved Driveway	=====
Ex. Pavement to be Removed	=====
Existing Gravel	=====
Soils Boundary	-----
Existing Stream	~~~~~
75' Stream Bank Buffer	SBB
Wetland	W
25' Wetland Buffer	WB
Ex. Well (Abandoned)	●
25% or Greater Slopes	=====
Proposed Septic (10,000 Sq. Ft.) Recovery Area	=====
Stabilized Construction Entrance	SCE
Limit of Disturbance
Super Silt Fence	SSF
Erosion Control Matting	-----



Construction Specifications

- Length - minimum of 50' (30' for single residence lot).
- Width - 10' minimum, should be flared as the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The filter cloth shall be secured to the existing ground with staples or ties. The filter cloth shall be secured to the existing ground with staples or ties. The filter cloth shall be secured to the existing ground with staples or ties.
- Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equipment shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrance shall be passed through the entrance, maintaining positive drainage. Pipe shall be placed through the entrance, maintaining positive drainage. Pipe shall be placed through the entrance, maintaining positive drainage. Pipe shall be placed through the entrance, maintaining positive drainage.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE / MARYLAND DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES / HOWARD COUNTY DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES / SOIL CONSERVATION SERVICE / E - 16 - 3 / WATER MANAGEMENT ADMINISTRATION

DEVELOPER'S / BUILDER'S CERTIFICATION

I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I further certify that upon completion, a letter of notice, accompanied by an executed one year guarantee of plant materials, and a copy of this plan will be submitted to the Department of Planning and Zoning.

[Signature] 9/4/07
SIGNATURE OF DEVELOPER / BUILDER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING
[Signature] 9/24/07
DIRECTOR DATE

[Signature] 9/24/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

[Signature] 9/4/07
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

APPROVED: For Public Water and Private Sewerage Systems
Howard County Health Department

[Signature] 9/20/2007
Howard County Health Officer DATE

ENGINEER'S CERTIFICATE

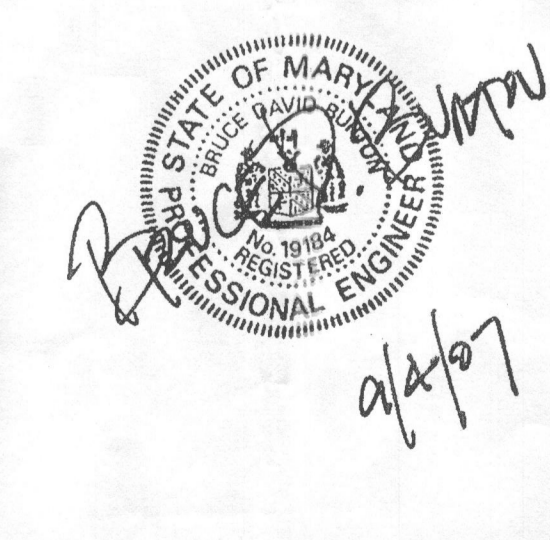
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

[Signature] 9/4/07
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

[Signature] 9/4/07
SIGNATURE OF DEVELOPER DATE



REVISIONS

No.	Date	Description

LDE Inc.
Engineers, Surveyors, Planners
9250 Ramsey Road, Suite 106 Columbia, Maryland - 21045
(410)715-1070 - (301)596-3424 - FAX (410)715-3540

DESIGNED	BDB	SEDIMENT & EROSION CONTROL PLAN	SCALE	1" = 30'
DRAWN	STB	LOT 2	DRAWING	2 OF 3
CHECKED	BDB	LARENAS PROPERTY	JOB NO.	04-026.2
DATE	9/2007	TAX MAP 41 GRID 17 PARCEL 270 6th ELECTION DISTRICT HOWARD COUNTY, MD	FILE NO.	SDP-07-107

Previous Submittals: WP07-54, F06-189
OWNER/DEVELOPER: EFRAIN R. LARENAS, ET AL
7501 Flamewood Drive
Clarksville, MD 21029

HOWARD SOIL CONSERVATION DISTRICT PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: In lieu of soil test recommendations, use one of the following schedules:

- PREFERRED** -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 600 lbs per acre 10-10-10 fertilizer (24 lbs/1000sq. ft.) before seeding. Harrow or disk into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 urea-form fertilizer (9 lbs/1000sq. ft.).
- ACCEPTABLE** -- Apply 2 tons per acre dolomitic limestone (92 lbs/1000sq. ft.) and 1000 lbs per acre 10-10-10 fertilizer (24 lbs/1000sq. ft.) before seeding. Harrow or disk into upper three inches of soil.

SEEDING -- For the periods March 1 thru April 30, and August 1 thru October 15, seed with 60 lbs per acre (1.4 lbs/1000sq. ft.) of Kentucky 31 Tall Fescue and 2 lbs per acre (0.9 lbs/1000sq. ft.) of weeping lovegrass. During the period of October 16 thru February 28, protect site by Option (1) -- 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option (2) -- Use seed. Option (3) -- Seed with 60 lbs per acre Kentucky 31 Tall Fescue and mulch 2 tons / acre well anchored straw.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using 3/8" galvanized steel pins. On slopes 3 feet or higher, use 3/4" galvanized steel pins for anchoring.

MAINTENANCE -- Inspect all seeding areas and make needed repairs, replacements and reseedings.

HOWARD SOIL CONSERVATION DISTRICT TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be restituted where a short-term vegetative cover is needed.

SEEDBED PREPARATION: Loosen upper three inches of soil by raking, disking, or other acceptable means before seeding, if not previously loosened.

SOIL AMENDMENTS: -- Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000sq. ft.).

SEEDING -- For periods March 1 thru April 30, and from August 15 thru October 15 seed with 2-1/2 bushels per acre of annual ryegrass (5.2 lbs/1000sq. ft.). For the period May 1 thru August 14, seed with 3 lbs per acre of weeping lovegrass (0.7 lbs/1000sq. ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use seed.

MULCHING -- Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000sq. ft.) of unrotted weed free small grain straw immediately after seeding. Anchor mulch immediately after application using 3/8" galvanized steel pins. On slopes 3 feet or higher, use 3/4" galvanized steel pins for anchoring.

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for additional rates and methods not covered.

210 STANDARD AND SPECIFICATIONS FOR TOPSOIL

Definition
Placement of topsoil over a prepared subsoil prior to establishment of permanent vegetation.

Purpose
To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, low nutrient levels, low pH, materials toxic to plants, and/or unacceptable soil gradation.

Conditions Where Practice Applies

- This practice is limited to areas having 2:1 or flatter slopes where:
 - The texture of the exposed subsoil/parent material is not adequate to produce vegetative growth.
 - The soil material is so shallow that the rooting zone is not deep enough to support plants or furnish continuing supplies of moisture and plant nutrients.
 - The original soil to be vegetated contains material toxic to plant growth.
 - The soil is so acidic that treatment with limestone is not feasible.
- For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plans.

Construction and Material Specifications

- Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the final survey published by USNR-DCS in cooperation with Maryland Agricultural Experiment Station.
- Topsoil Specifications -- Soil to be used as topsoil must meet the following:
 - Topsoil shall be a loam, sandy loam, clay loam, silty loam, sandy clay loam, loamy sand. Other soils may be used if recommended by an agronomist or soil scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textures and shall contain less than 5% by volume of cinders, stones, slag, coarse fragments, gravel, sticks, roots, trash, or other materials larger than 1-1/2" in diameter.
 - Topsoil must be free of plants or plant parts such as Bermuda grass, quackgrass, Johnsongrass, nutgrass, poison ivy, salsify, or others as specified.
 - Where the subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.
- For sites having disturbed areas under 5 acres:
 - Place topsoil (if required) and apply soil amendments as specified in 200 Vegetative Stabilization - Section 1 - Vegetative Stabilization Methods and Materials.

INFILTRATION DRYWELL DETAIL

DRYWELL DIMENSIONS
8' WIDE X 22' LONG X 5' DEEP

Construction Specifications for INFILTRATION DRYWELL:

- The Infil. Drywell may not receive run-off until the entire contributing drainage area to the Infiltration Drywell has received final stabilization.
- Heavy equipment and traffic shall be restricted from traveling over the proposed location of the infiltration drywell to minimize compaction of the soil.
- Excavate the infiltration trench to the design dimensions. Excavated materials shall be placed away from the trench walls. Large tree roots must be trimmed flush with the trench sides in order to prevent fabric puncturing or tearing of the filter fabric during subsequent installation procedures. The side walls of the trench shall be roughened where sheared and sealed by heavy equipment.
- A Class "C" geotextile or better (see Section 24.0, Material Specifications, 1994 Standards and Specifications for Soil Erosion and Sediment Control, MDE, 1994) shall interface between the trench side walls and between the stone reservoir and gravel filter layers. A partial list of non-woven filter fabrics that meet the Class "C" criteria follows. Any alternative filter fabric must be approved by the plan approval authority.

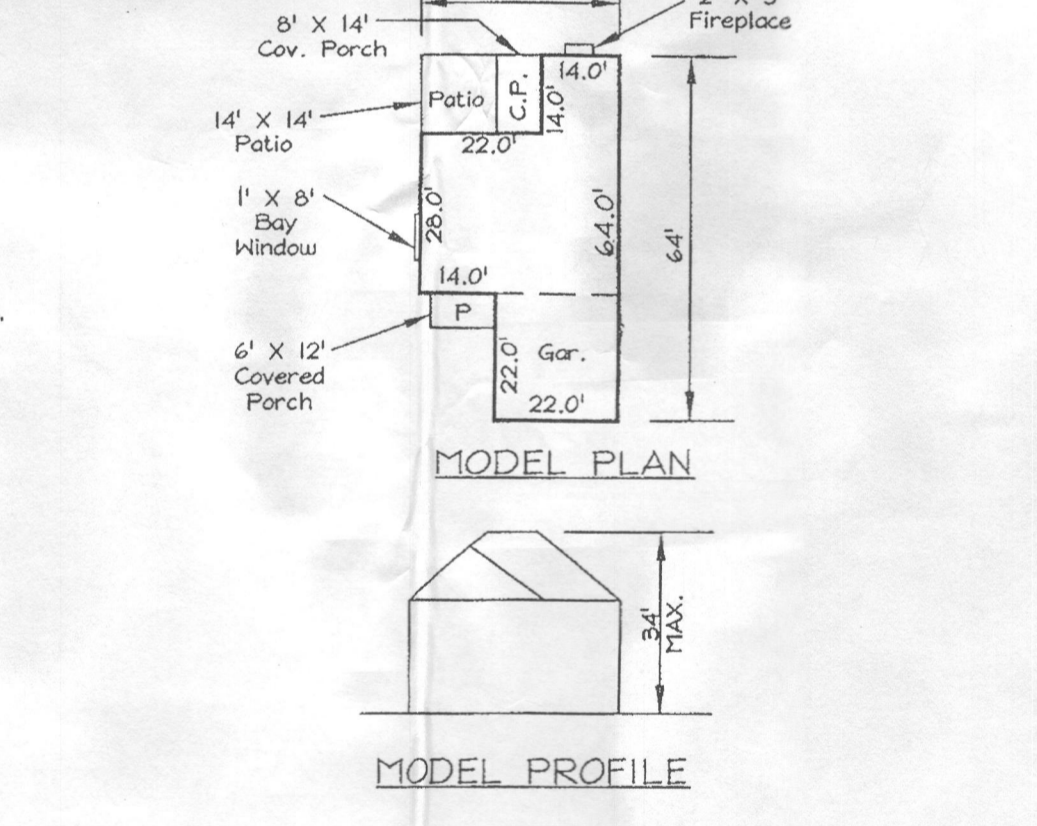
Amoco 4552	Carriage FX-80S
GEOLON N70	Mirafl 180-N
WEBTEC N07	

The width of the geotextile must include sufficient material to conform to trench perimeter irregularities and for a 6-inch minimum top overlap. The filter fabric shall be tucked under the sand layer on the bottom of the infiltration trench. The pipe shall have a diameter of 6 to 12 inches. Stones or other anchoring objects should be placed on the fabric at the edge of the trench to keep the trench open during windy periods. When overlaps are required between rolls, the uphill roll should lap a minimum of 2 feet over the downhill roll in order to provide a shingled effect.

- If a 1/2" sand filter layer is placed on the bottom of the infiltration trench, the sand for the infiltration trench shall be washed and meet AASHTO-M-43, Size No. 2 or No. 3. Install 12" Top Sand Layer followed by Geotextile Fabric & Topsoil Cover.
- Following the topsoil cover, the filter fabric shall be folded over the stone sand aggregate to form a 6-inch minimum longitudinal lap. The desired fill soil or stone aggregate shall be placed over the lap at sufficient intervals to maintain the lap during subsequent backfilling.
- Care shall be exercised to prevent natural or fill soils from intermixing with the stone & sand aggregate. All contaminated stone aggregate shall be removed and replaced with uncontaminated stone aggregate.
- voids may occur between the fabric and the excavation sides shall be avoided. Removing boulders or other obstacles from the trench walls is one source of such voids. Therefore, natural soils should be placed in these voids at the most convenient time during construction to ensure fabric conformity to the excavation sides.
- Vertically excavated walls may be difficult to maintain in areas where soil moisture is high or where soft cohesive or cohesionless soils are dominant. These conditions may require laying back of the side slopes to maintain stability.
- PVC distribution pipes shall be Schedule 40 and meet ASTM-D-1785. All fittings shall meet ASTM-D-2729. Perforations shall be 3/8" in diameter. A perforated pipe shall be provided only within the infiltration trench and shall terminate 1 foot short of the infiltration trench wall. The end of the PVC pipe shall be capped. Note: PVC pipe with a wall thickness classification of SDR-35 meeting ASTM-D-3034 is an acceptable substitute for the Schedule 40 pipe.
- The observation well is to consist of 6-inch diameter perforated PVC Schedule 40 pipe (M 278 OR P78, Type PS 28) with a cap set 6 inches above ground level and is to be located near the longitudinal center of the infiltration trench. The pipe shall have a plastic collar with ribs to prevent rotation when removing the cap. The screw top lid shall be cleaned with a locking mechanism or special bolt to discourage vandalism. The depth to the invert shall be marked on the lid. The pipe shall be placed vertically within the gravel portion of the infiltration trench and a gap provided at the bottom of the pipe. The bottom of the cap shall rest on the infiltration trench bottom.

OPERATION, MAINTENANCE AND INSPECTION SCHEDULE

- The lot owners and their heirs, successors, or assigns shall be solely responsible for the safety of the facility and the continued operation, surveillance, inspection and maintenance thereof.
- Inspection of the facility shall be performed minimally on an annual basis. When sediment is visually apparent within the stone voids, the portion of the stones that are affected by sedimentation shall be removed and replaced with clean stone. Replacement of the infiltration trench may be warranted when the voids of the stone are obviously impacted with sediment fills and water no longer drains (percolates) into and through the stone.
- Direct access shall be provided to the infiltration trench for maintenance and rehabilitation. The stone reservoir used to temporarily store runoff prior to infiltration shall not be covered by an impermeable surface (paving, etc.).
- Accumulated paper, trash and debris shall be removed from the facility as necessary.
- The grass vegetation along the sides of the facility shall be inspected for erosion rills or gullies and corrected as required. Any bare areas should be stabilized by seeding with erosion control matting or sodded as necessary.



APPROVED: For Public Water and Private Sewerage Systems
Howard County Health Department

Brian Peter Bullenson 9/20/2007
Howard County Health Officer Date

DEVELOPER'S / BUILDER'S CERTIFICATION

I certify that the landscaping shown on this plan will be done according to the plan, Section 16.124 of the Howard County Subdivision and Land Development Regulations and the Landscape Manual. I further certify that upon completion, a letter of notice, accompanied by an executed one year guarantee of plant materials, and a copy of this plan will be submitted to the Department of Planning and Zoning.

Phyllis 9/4/07
SIGNATURE OF DEVELOPER / BUILDER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS.

Jim Mullen 9-7-07
NATURAL RESOURCE CONSERVATION SERVICE DATE

ENGINEER'S CERTIFICATE

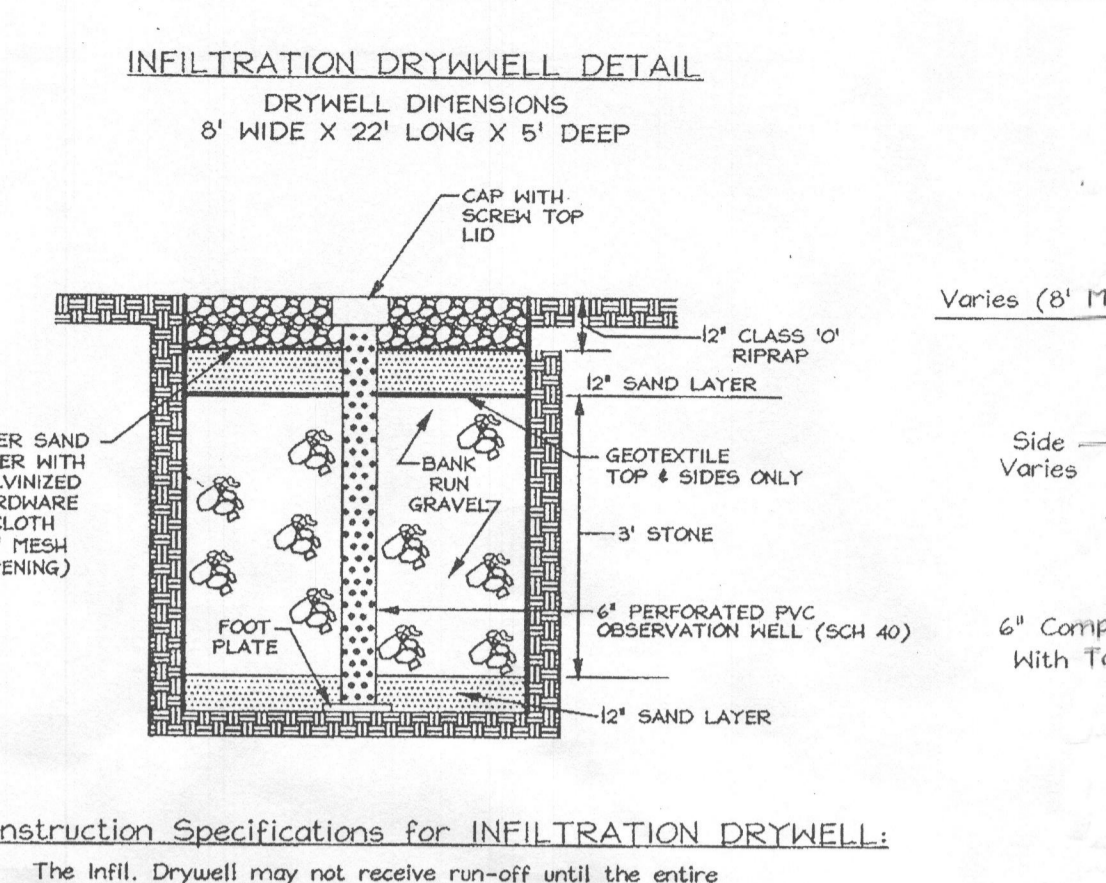
I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Bruce D. Bump 9/4/07
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROGRAM WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONNEL INSPECTED BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Phyllis 9/4/07
SIGNATURE OF DEVELOPER DATE



TREE PROTECTION FENCE

NOTES:

- Remove covering from top of well & place tree so that first lateral root is flush with grade. 5\"/>
- Remove 1/2\"/>
- Place tree in hole so that first root (lateral) is flush with grade. 5\"/>
- 5\"/>

SIGN DESIGN AND INSTALLATION DETAIL

NOTES:

- Remove covering from top of well & place tree so that first lateral root is flush with grade. 5\"/>
- Remove 1/2\"/>
- Place tree in hole so that first root (lateral) is flush with grade. 5\"/>
- 5\"/>

LANDSCAPE NOTES:

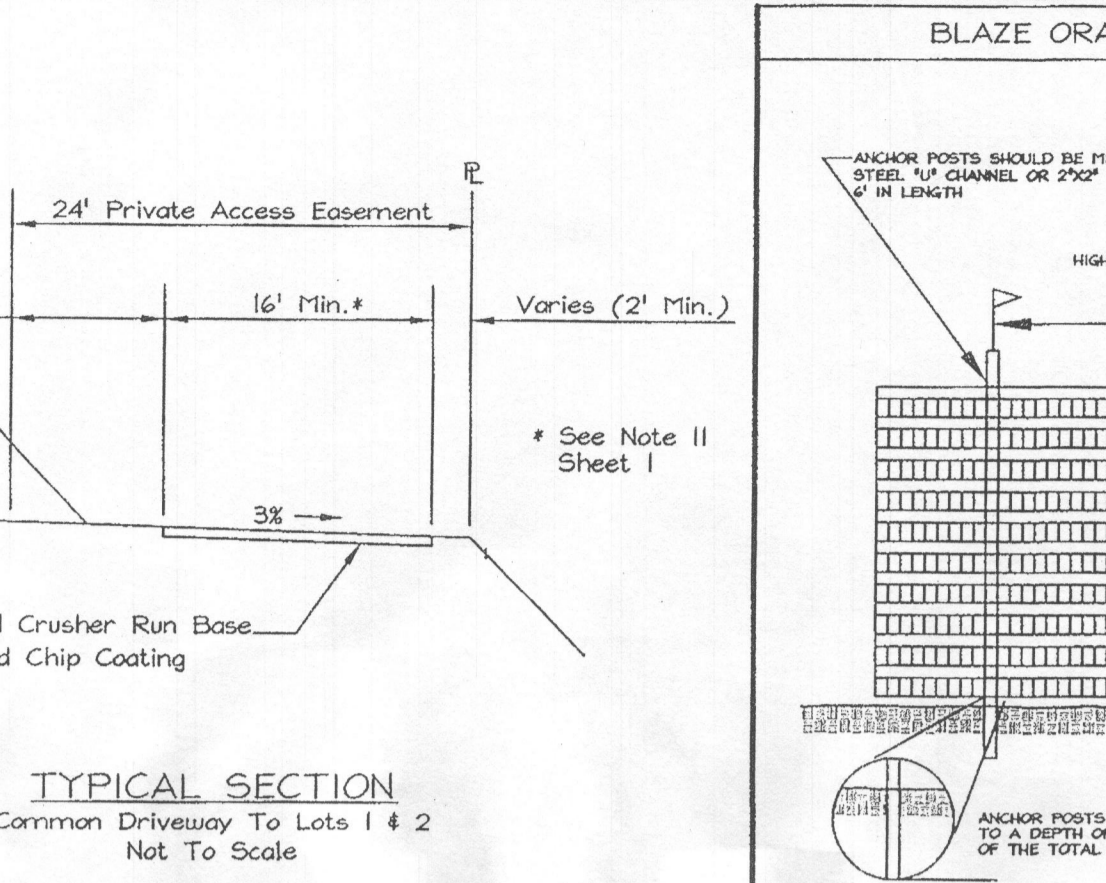
- This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and Howard County Landscape Manual.
- The Owner/Developer is responsible for planting of all material required to meet the standards established by the Howard County Landscape Manual.
- Perimeter landscaping for Lot 2, shall be provided as shown on this Site Development Plan. Financial surety in the amount of \$4800.00 for 10 shade trees on Lot 2 shall be posted with the Developers Agreement under this Site Development Plan (SDP 07-107).
- The Owner, Tenant and/or their agents shall be responsible for maintenance of the required landscaping, plant materials, berm, fences and walls. All plant materials shall be maintained in good growing condition, and when necessary, replaced with new materials to ensure continued compliance with applicable regulations. All other required landscaping shall be permanently maintained in good condition, and when necessary, repaired or replaced.
- All plant materials shall conform to the American Nurserymen's publication, American nursery stock.
- At the time of installation, all shrubs and other plantings herewith listed and approved for this site shall be of the proper height requirements in accordance with the Howard County Landscape Manual. In addition, no substitutions or relocations of required plantings may be made without prior review and approval from the Department of Planning and Zoning. Any deviation from this approved Landscape Plan may result in denial or delay in the release of landscape surety until such time as all required materials are planted and/or revisions are made to applicable plans and certificates.

PLANT LIST CHART

SYMB.	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
(+)	16	Red Maple October Glory	Acer rubrum	2'-2 1/2' Cal.	B & B

REVISIONS

No.	Date	Description



SEQUENCE OF CONSTRUCTION:

- Obtain Grading Permit 1 Day
- Notify the Howard County Dept. of Inspections, Licenses and Permits at least 24 hours prior to starting work. 1 Day
- Construct Stabilized Construction Entrance. 1 Day
- Install Super Silt Fence as shown hereon. 3 Days
- Clear & grub site to subgrade. 5 Days
- Begin excavation for house foundation and begin house construction. Install water and sewer house connections. 60 Days
- The Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon after each rainfall and on a daily basis. Daily
- Remove sediment from roadways and dress Stabilized Construction Entrance as required. Maintenance
- Fine grade and stabilize with permanent seeding mixture and straw mulch. Install individual driveway and house walk. 5 Days
- Only after all areas have been stabilized and with permission from the Sediment Control Inspector, install infiltration drywell. 5 Days
- With permission from the Sediment Control Inspector, remove all sediment and erosion control measures and stabilize any remaining disturbed areas with permanent seeding mixture and straw mulch. 5 Days

Total Time: 81 Days



DESIGNER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 9/4/07
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROGRAM WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONNEL INSPECTED BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Phyllis 9/4/07
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

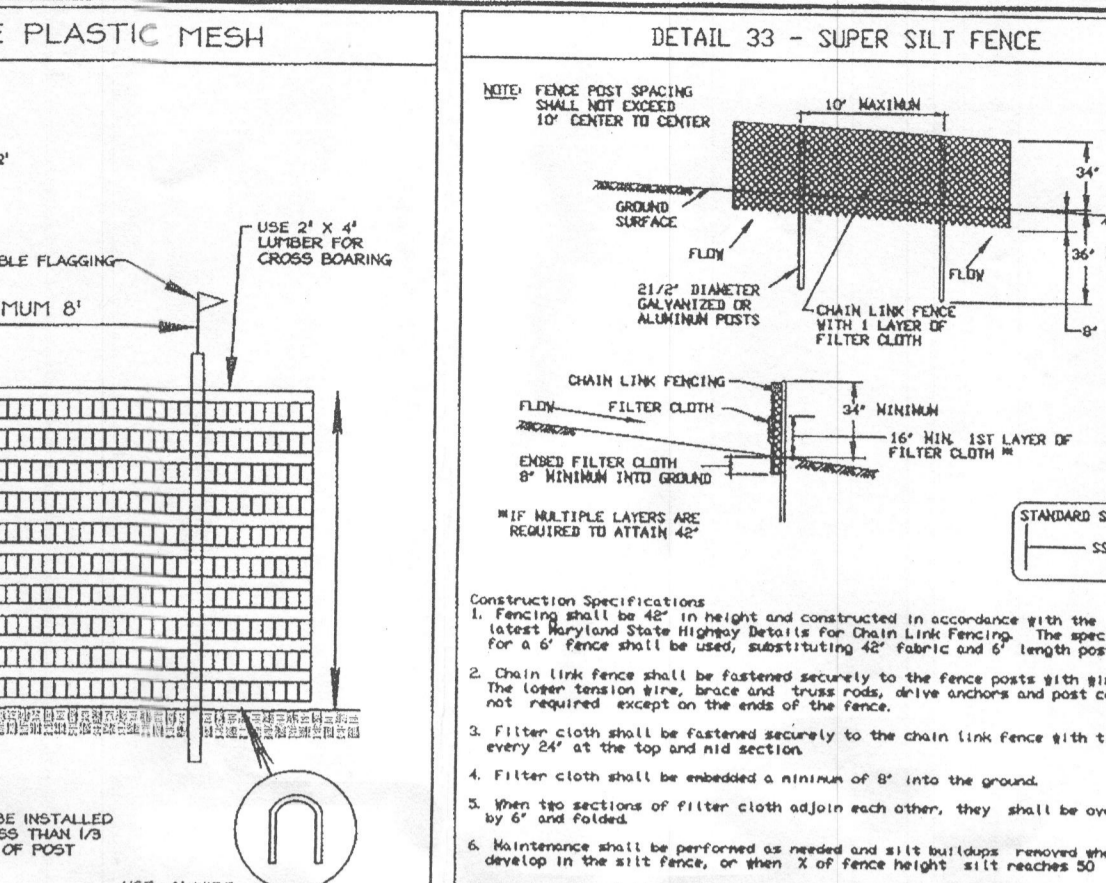
John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

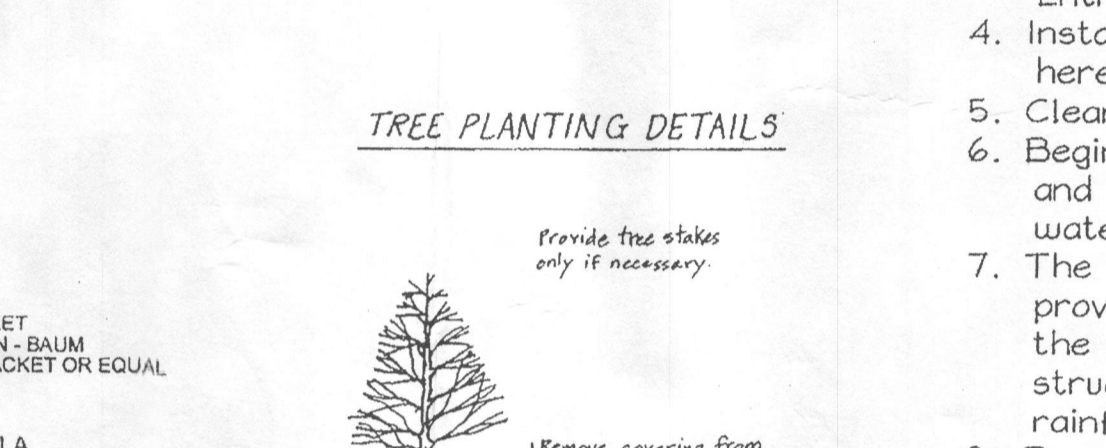
John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE



SEQUENCE OF CONSTRUCTION:

- Obtain Grading Permit 1 Day
- Notify the Howard County Dept. of Inspections, Licenses and Permits at least 24 hours prior to starting work. 1 Day
- Construct Stabilized Construction Entrance. 1 Day
- Install Super Silt Fence as shown hereon. 3 Days
- Clear & grub site to subgrade. 5 Days
- Begin excavation for house foundation and begin house construction. Install water and sewer house connections. 60 Days
- The Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon after each rainfall and on a daily basis. Daily
- Remove sediment from roadways and dress Stabilized Construction Entrance as required. Maintenance
- Fine grade and stabilize with permanent seeding mixture and straw mulch. Install individual driveway and house walk. 5 Days
- Only after all areas have been stabilized and with permission from the Sediment Control Inspector, install infiltration drywell. 5 Days
- With permission from the Sediment Control Inspector, remove all sediment and erosion control measures and stabilize any remaining disturbed areas with permanent seeding mixture and straw mulch. 5 Days

Total Time: 81 Days



DESIGNER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 9/4/07
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROGRAM WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONNEL INSPECTED BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Phyllis 9/4/07
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

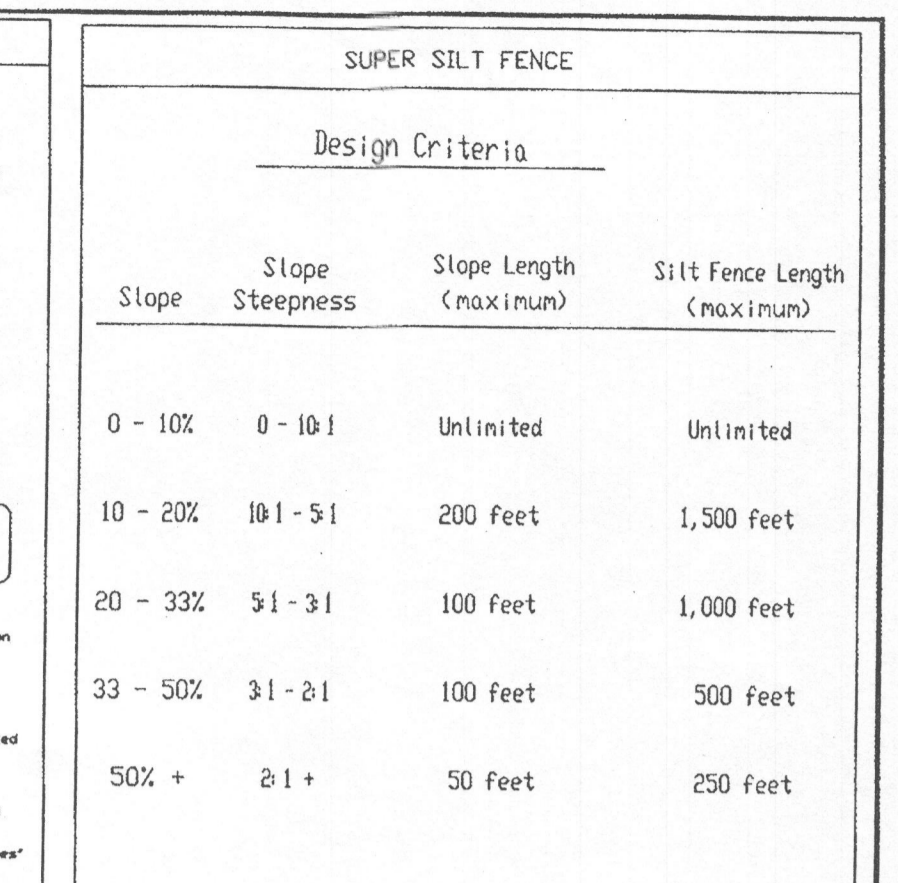
John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

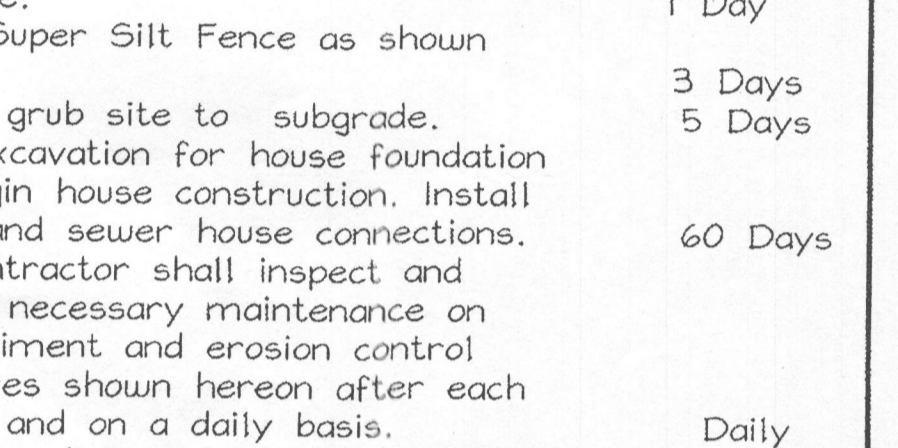
John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE



SEQUENCE OF CONSTRUCTION:

- Obtain Grading Permit 1 Day
- Notify the Howard County Dept. of Inspections, Licenses and Permits at least 24 hours prior to starting work. 1 Day
- Construct Stabilized Construction Entrance. 1 Day
- Install Super Silt Fence as shown hereon. 3 Days
- Clear & grub site to subgrade. 5 Days
- Begin excavation for house foundation and begin house construction. Install water and sewer house connections. 60 Days
- The Contractor shall inspect and provide necessary maintenance on the sediment and erosion control structures shown hereon after each rainfall and on a daily basis. Daily
- Remove sediment from roadways and dress Stabilized Construction Entrance as required. Maintenance
- Fine grade and stabilize with permanent seeding mixture and straw mulch. Install individual driveway and house walk. 5 Days
- Only after all areas have been stabilized and with permission from the Sediment Control Inspector, install infiltration drywell. 5 Days
- With permission from the Sediment Control Inspector, remove all sediment and erosion control measures and stabilize any remaining disturbed areas with permanent seeding mixture and straw mulch. 5 Days

Total Time: 81 Days



DESIGNER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

John R. Robertson 9/4/07
SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROGRAM WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERSONNEL INSPECTED BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Phyllis 9/4/07
SIGNATURE OF DEVELOPER DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Mark L. Cagle 9/21/07
DIRECTOR DATE

Andy Kamm 9/20/07
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

John R. Robertson 9/11/07
CHIEF, DEVELOPMENT ENGINEERING DATE