

CALL ROBERT WEBSTER WITH QUESTIONS  
443-367-0422 EX 219

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AP 523531

AGENCY REVIEW: \_\_\_\_\_ DATE 10/20/05

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) EXISTING
- 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 (ABOUT HALF OF SITE)
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 TO 5 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) THOMAS & MARY MCGONIGAL

DAYTIME PHONE 443-367-0422 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DRIVE ELLICOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

APPLICANT: LAND DESIGN & DEVELOPMENT

DAYTIME PHONE 443-367-0422-219 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DR. ELLICOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME MCGONIGAL PROPERTY LOT NO. 1

PROPERTY ADDRESS 13613 HIGHLAND ROAD CLARKSVILLE MD 21029  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 303 PROPOSED LOT SIZE 3.88 Ac<sup>t</sup>

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. Thomas E. McGonigal  
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 \_\_\_\_\_

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ @P 5 23531

AGENCY REVIEW: \_\_\_\_\_ DATE 10/20/05

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 (ABOUT HALF OF SITE)
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 TO 5 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) THOMAS & MARY McGUIRICAL

DAYTIME PHONE 443-367-0422 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DRIVE ELLICOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

APPLICANT LAND DESIGN & DEVELOPMENT

DAYTIME PHONE 443-367-0422-219 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DR. ELLICOTT CITY MD 21042  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME McGUIRICAL PROPERTY LOT NO. 4

PROPERTY ADDRESS 13613 HIGHLAND ROAD CLARKSVILLE MD 21029  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 303 PROPOSED LOT SIZE 7.61 Ac ±

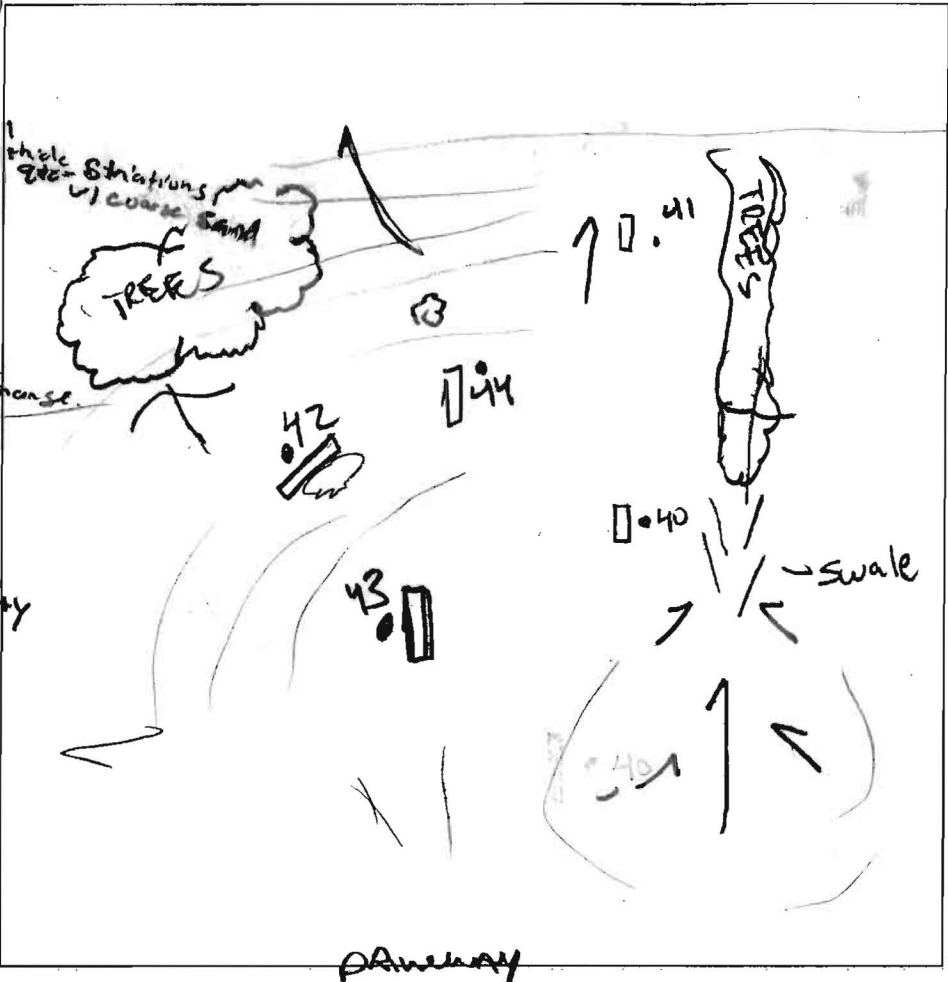
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A.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

TEST RESULTS WILL BE MAILED TO APPLICANT. Thomas E. McGuirical  
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

AP (44) + (42)

brown  
 ob heavy  
 yb s1  
 loam  
 1  
 2 1/2  
 TRANSITION  
 3  
 ob-  
 red p. diam  
 fine s1  
 micaceous  
 1  
 8  
 E. house  
 yb  
 v. micaceous  
 s1  
 5  
 w/ s1  
 5  
 clay frags  
 coarse cherty  
 15%



40  
 Brown  
 LOAM  
 1/2  
 ob  
 Vermiculate  
 very fine  
 s1  
 1 1/2  
 ob →  
 yb  
 micaceous  
 very fine  
 s1  
 10  
 5-10% clay frags  
 15%

43  
 Brown L  
 ob  
 heavy loam  
 w/ s1  
 v. micaceous  
 ob  
 f. s1  
 ob  
 f. s1  
 PLATEY  
 5%  
 yb s1  
 5%  
 ↓

(41)  
 Brown  
 heavy  
 s1  
 1  
 20-25%  
 v. micaceous  
 coarse  
 s1  
 TRANSITION  
 4  
 wavy  
 yb  
 micaceous  
 fine  
 sandy loam  
 11'  
 5-10% clay frags  
 15/15%

DATE	TEST #	DEPTH effective 2.5'	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
	40	4 1/2 / 10'	9:02	9:03 <sup>50</sup>	9:06	2:10	P
	41	5 / 14	9:10	9:11 <sup>30</sup>	9:14 <sup>10</sup>	2:20	P
	44	5 / 14	9:14	9:17	9:24	7	P
	42	5 / 13	9:24	9:26	9:29	3	P
	43	5 / 13	9:30	9:32	9:35	3	P

REMARKS \_\_\_\_\_  
 SANITARIAN PAY BACKHOE Mike Johnson OTHERS P. Webster  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AP 523 531

AGENCY REVIEW: \_\_\_\_\_ DATE 10/20/05

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 (ABOUT HALF OF SITE)
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 TO 5 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) THOMAS & MARY MCGONIGAL

DAYTIME PHONE 410 443-367-0422 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DRIVE CITY/TOWN ELLICOTT CITY STATE MD ZIP 21042

APPLICANT: LAND DESIGN & DEVELOPMENT

DAYTIME PHONE 443-367-0422-219 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DR. CITY/TOWN ELLICOTT CITY STATE MD ZIP 21042

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

PROPERTY LOCATION SUBDIVISION/PROPERTY NAME MCGONIGAL PROPERTY LOT NO. 3

PROPERTY ADDRESS 13613 HIGHLAND ROAD TOWN/POST OFFICE CLARKSVILLE MD ZIP 21029

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 303 PROPOSED LOT SIZE 5.86 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.

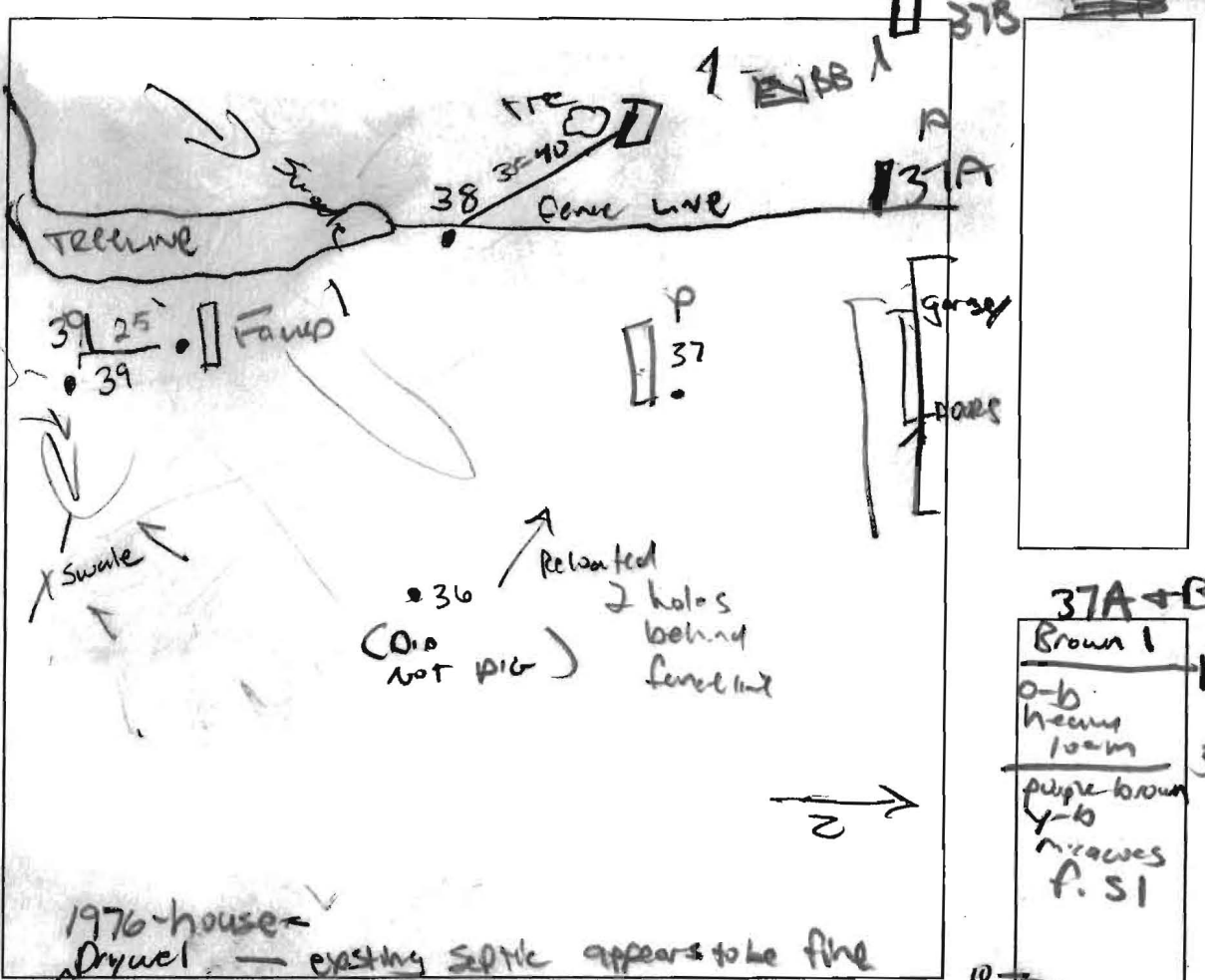
TEST RESULTS WILL BE MAILED TO APPLICANT. Thomas E. McGonigal SIGNATURE OF APPLICANT

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

**Brown L**  
 platy or strong y-b loam  
 purple brown f. sl  
 platy purple brown compact  
 purple brown micaceous sl  
 V. micaceous compact  
**REFUSAL**

**39**  
**Brown L**  
 o-b heavy L- scl  
 rock cobbles  
 sandy f. sl  
 y-b massive micaceous f. sl

**37**  
**brown L**  
 red brown scl  
 fine moist sl very micaceous  
 red brown purple brown fine micaceous sl  
 cherty frags



**37A+BB**  
**Brown L**  
 o-b heavy loam  
 purple brown y-b micaceous f. sl  
 SL / PURELY  
 20% LS

**38**  
**Brown L**  
 o-b heavy  
 o-b / P-b micaceous fine sl micaceous  
 platy micaceous  
 P. P. 15

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
	39	4 1/2	10:04	PULLED SLOW			F
	37	4 1/2	10:17	10:24	10:34	10	P
38?	28A	5	10:45	10:47	10:49	2	P
	37A	4 1/2	10:51	10:57	11:08	11	P
	BB	13		VISUAL			P
	37B	4	11:06	11:20	11:44	24	P

REMARKS  
 SANITARIAN P. Yencsik BACKHOE Mike Johnson OTHERS Robert Weber + Owen EP  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SAW \_\_\_\_\_



# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) \_\_\_\_\_ TEST TIME \_\_\_\_\_ AP 5 23 531

AGENCY REVIEW: \_\_\_\_\_ DATE 10/20/05

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 (ABOUT HALF OF SITE)
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH 4 TO 5 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) THOMAS & MARY MCGONIGAL

DAYTIME PHONE c/o 443-367-0422 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS c/o 5300 VORSEY HALL DRIVE CITY/TOWN ELICOTT CITY STATE MD ZIP 21042

APPLICANT LAND DESIGN & DEVELOPMENT

DAYTIME PHONE 443-367-0422-219 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 5300 VORSEY HALL DR. CITY/TOWN ELICOTT CITY STATE MD ZIP 21042

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

PROPERTY LOCATION SUBDIVISION/PROPERTY NAME MCGONIGAL PROPERTY LOT NO. 2

PROPERTY ADDRESS 13613 HIGHLAND ROAD TOWN/POST OFFICE CLARKSVILLE MD ZIP 21029

TAX MAP PAGE(S) 34 GRID 8 PARCEL(S) 303 PROPOSED LOT SIZE 3.28 Ac<sup>+</sup>

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. Thomas E. McGonigal  
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 \_\_\_\_\_

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H

REMARKS \_\_\_\_\_

SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_

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

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

7-4' apart laterals  
more laterals  
109 gpd/ft in length

**TABLE 2.2**  
**APPROXIMATE SAND MOUND DIMENSIONS AND AREA REQUIREMENTS FOR**  
**SITES WITH PERCOLATION RATES LESS THAN 45 MINUTES PER INCH<sup>a</sup>**

Three Bedroom (450 gpd) 375 Square Feet Bed Absorptive Area					
Percent of Slope	4 × 94	5 × 75	6 × 62.5	9 × 42	Absorption Bed Dimensions (Ft.)
0%	27 × 120 3240	28 × 101 2828	29 × 88 2552	32 × 68 2176	Final Dimensions (Ft.) (Square Feet)
6%	29 × 121 3509	30 × 102 3060	31 × 90 2790	34 × 70 2380	Final Dimensions (Ft.) (Square Feet)
12%	33 × 121 3993	34 × 103 3502	36 × 91 3276	41 × 71 2911	Final Dimensions (Ft.) (Square Feet)
Four Bedroom (600 gpd) 500 Square Feet Bed Absorptive Area					
Percent of Slope	5 × 100	6 × 83	8 × 62.5	9 × 56	Absorption Bed Dimensions (Ft.)
0%	28 × 126 3528	29 × 106 3074	31 × 89 2759	32 × 82 2624	Final Dimensions (Ft.) (Square Feet)
6%	30 × 127 3810	31 × 110 3410	34 × 90 3060	35 × 84 2940	Final Dimensions (Ft.) (Square Feet)
12%	34 × 128 4352	36 × 111 3996	39 × 102 3978	40 × 85 3400	Final Dimensions (Ft.) (Square Feet)
Five Bedroom (750 gpd) 625 Square Feet Bed Absorptive Area					
Percent of Slope	6 × 104	8 × 78	9 × 70	12 × 52	Absorption Bed Dimensions (Ft.)
0%	29 × 130 3770	31 × 104 3224	32 × 96 3072	35 × 78 2730	Final Dimensions (Ft.) (Square Feet)
6%	31 × 131 4061	34 × 106 3604	35 × 98 3430	39 × 80 3120	Final Dimensions (Ft.) (Square Feet)
12%	36 × 132 4752	39 × 107 4173	40 × 99 3960	45 × 82 3690	Final Dimensions (Ft.) (Square Feet)

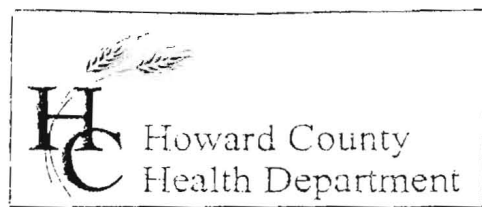
gravel part pipes

Barrel No. 1, 2

① Always ASK How long can we make it

<sup>a</sup> Based on mounds having 24 in. upslope sand fill depth and bed design infiltration rates of 1.2 gpd/ft<sup>2</sup>.

long & narrow



Bureau of Environmental Health  
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

November 22, 2005

Mr. & Mrs. McGunigal  
5300 Dorsey Hall Drive  
Ellicott City MD 21042

RE: PERCOLATION TEST Application Plan  
Tax Map34, Parcel 303  
McGunigal Property

Dear Mr. McGunigal :

The following comments apply to a percolation application plan submitted to our office November 18, 2005.

- The well on 13510 Nichols Drive (Lot 8) must be shown on the percolation application plan
- The well on 13520 Nichols Drive (Lot 9) must be shown on percolation application plan

These wells need identified because of the proximity of the proposed septic easements on lots 3 &4.

Respectfully,



Peter Yencsik, Environmental Sanitarian  
Development Coordination Section  
Well and Septic Program

Py  
Enclosures

cc: Fisher Collins & Carter - ~~S&C~~ ~~VA~~ ~~Fr~~ 410-750-3784  
File  
LDD- Robert Webster



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2643  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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

November 22, 2005

Mr. & Mrs. McGunigal  
5300 Dorsey Hall Drive  
Ellicott City MD 21042

RE: PERCOLATION TEST Application Plan  
Tax Map34, Parcel 303  
McGunigal Property

Dear Mr. McGunigal :

The following comments apply to a percolation application plan submitted to our office November 18, 2005.

- The well on 13510 Nichols Drive (Lot 8) must be shown on the percolation application plan
- The well on 13520 Nichols Drive (Lot 9) must be shown on percolation application plan

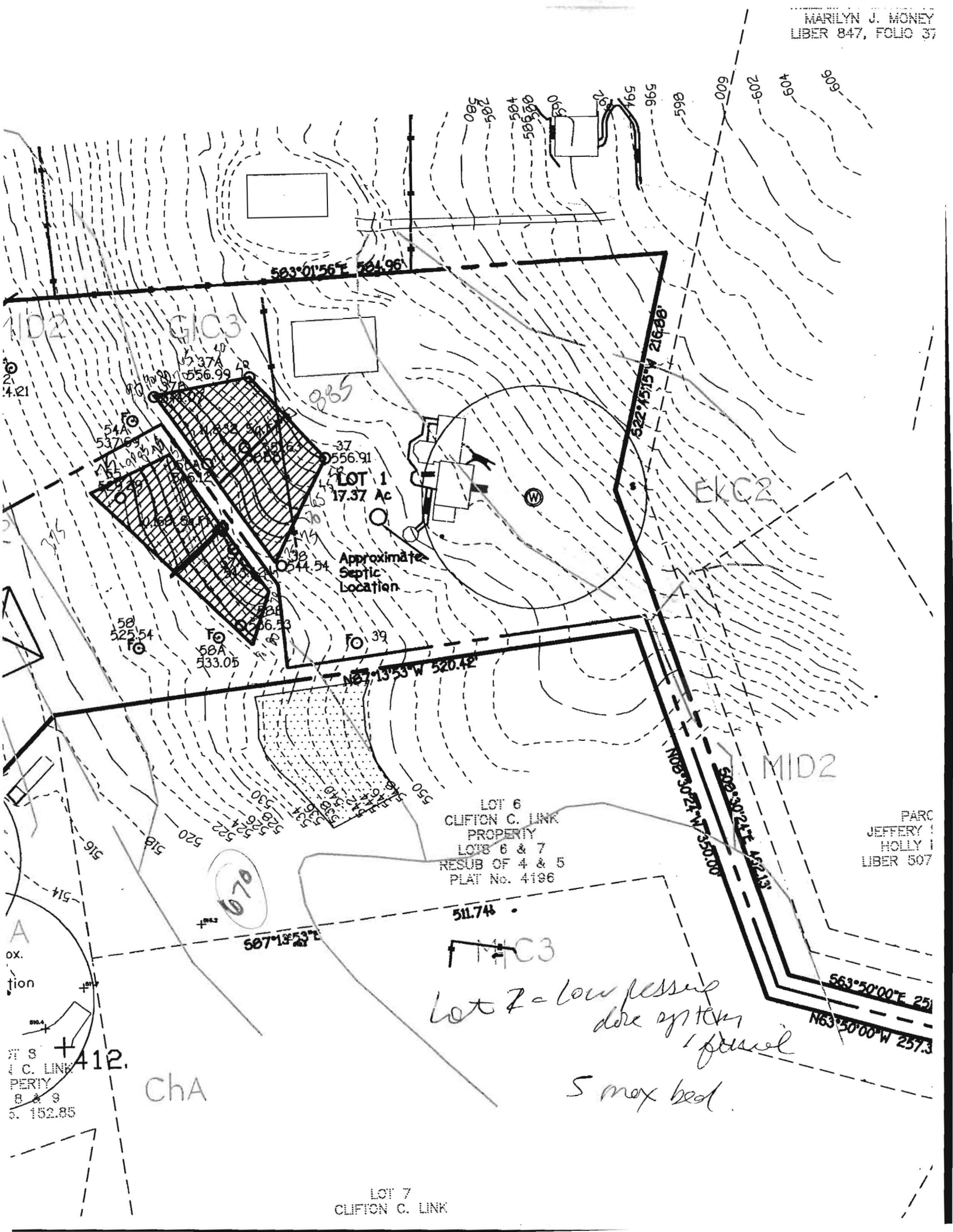
These wells need identified because of the proximity of the proposed septic easements on lots 3 &4.

Respectfully,

Peter Yencsik, Environmental Sanitarian  
Development Coordination Section  
Well and Septic Program

Py  
Enclosures  
cc: Fisher Collins & Carter  
File  
LDD- Robert Webster





LOT 1  
17.37 Ac

Approximate  
Septic  
Location

LOT 6  
CLIFTON C. LINK  
PROPERTY  
LOTS 6 & 7  
RESUB OF 4 & 5  
PLAT No. 4196

LOT 7  
CLIFTON C. LINK

*Lot 7 = low pressure  
dye system  
1 parcel  
5 max bed.*

PARC  
JEFFERY I  
HOLLY I  
LIBER 507

LOT 8  
CLIFTON C. LINK  
PROPERTY  
B & 9  
S. 152.85

ChA

EKC2

MID2

C3

G/C3

102

670

4.21

ox.  
tion

412.

511.74

563°50'00"E 251

N63°50'00"W 257.3

N00°30'21"W 321.91

S02°30'21"E 422.19

S07°13'53"E

N27°13'53"W 520.42

S22°15'15"W 216.88

S03°01'56"E 524.96

S08°52'54"

S08A  
533.05

S06°53'

S04°44.54'

S05°56.91'

S05°37A'

S05°55.99'

580

585

584

586

587

588

589

590

591

592

593

594

595

596

597

598

599

600

601

602

603

604

605

606

607

608

609

610

611

612

613

614

615

616

617

618

619

620

621

622

623

624

625

626

627

628

629

630

631

632

633

634

635

636

637

638

639

640

641

642

643

644

645

646

647

648

649

650

651

652

653

654

655

656

657

658

659

660

661

662

663

664

665

666

667

668

669

670

671

672

673

674

675

676

677

678

679

680

681

682

683

684

685

686

687

688

689

690

691

692

693

694

695

696

697

698

699

700

701

702

703

704

705

706

707

708

709

710

711

712

713

714

715

716

717

718

719

720

721

722

723

724

725

726

727

728

729

730

731

732

733

734

735

736

737

738

739

740

741

742

743

744

745

746

747

748

749

750

751

752

753

754

755

756

757

758

759

760

761

762

763

764

765

766

767

768

769

770

771

772

773

774

775

776

777

778

779

780

781

782

783

784

785

786

787

788

789

790

791

792

793

794

795

796

797

798

799

800

801

802

803

804

805

806

807

808

809

810

811

812

813

814

815

816

817

818

819

820

821

822

823

824

825

826

827

828

829

830

831

832

833

834

835

836

837

838

839

840

841

842

843

844

845

846

847

848

849

850

851

852

853

854

855

856

857

858

859

860

861

862

863

864

865

866

867

868

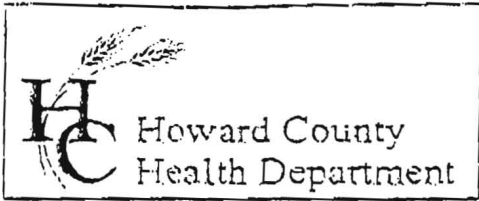
869

870

871

872

&lt;



ENVIRONMENTAL HEALTH  
Bureau of Environmental Health  
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

November 22, 2005

Mr. & Mrs. McGunigal  
5300 Dorsey Hall Drive  
Ellicott City MD 21042

RE: PERCOLATION TEST Application Plan  
Tax Map34, Parcel 303  
McGunigal Property

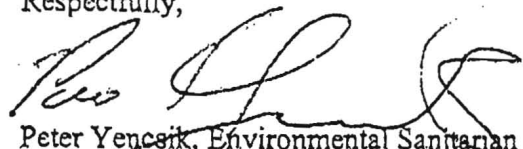
Dear Mr. McGunigal :

The following comments apply to a percolation application plan submitted to our office November 18, 2005.

- The well on 13510 Nichols Drive (Lot 8) must be shown on the percolation application plan
- The well on 13520 Nichols Drive (Lot 9) must be shown on percolation application plan

These wells need identified because of the proximity of the proposed septic easements on lots 3 &4.

Respectfully,

  
Peter Yencsik, Environmental Sanitarian  
Development Coordination Section  
Well and Septic Program

RECEIVED

Py  
Enclosures  
cc: Fisher Collins & Carter  
File  
LDD- Robert Webster

*sent via fax 410-758-3784*

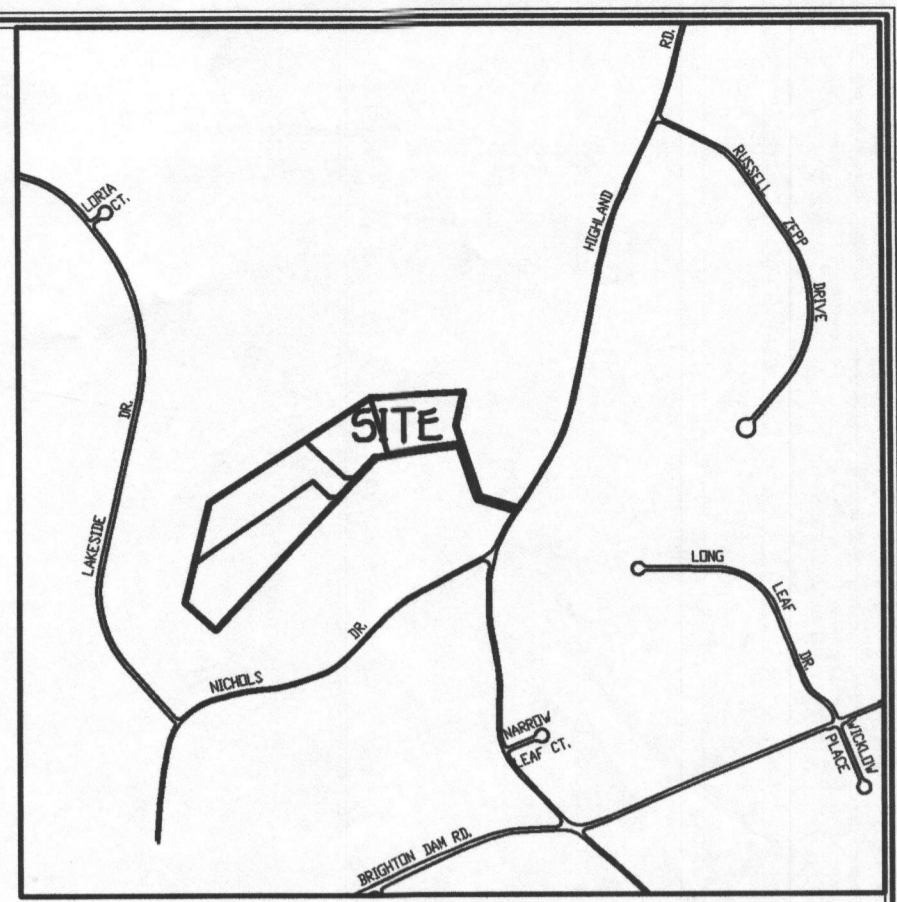
**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES PROPOSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 15%-24.9% SLOPES
- DENOTES 25% AND GREATER SLOPE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

**SOILS LEGEND**

SOIL	NAME	CLASS
Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnC3	Glenelg loam, 8 to 15 percent slopes, severely eroded	B
GnB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elk oak silt loam, 8 to 15 percent slopes, moderately eroded	B
Ha	Hatboro silt loam	D
MID2	Mianor loam, 15 to 25 percent slopes, moderately eroded	B
EkB2	Elk oak silt loam, 3 to 8 percent slopes, moderately eroded	B
MtC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

- NOTES:**
- \* Hydric soils and/or contains hydric inclusions
  - \*\* May contain hydric inclusions
  - † Generally only within 100-year floodplain areas



*pete field copy*

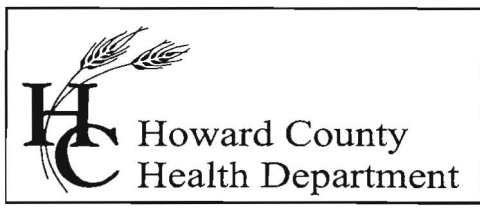


**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR SAND MOUND SYSTEM AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 763 FOLIO 120
10. DENOTES EXISTING PERC ARE PER PLAT NO. 4196 TO BE ABANDONED.

**PERC APPLICATION PLAT FOR LOTS 1 THRU 4 SAND MOUND SYSTEMS MCGUNIGAL PROPERTY AND PERC RELOCATION PLAT LOT 6 - CLIFTON C. LINK PROPERTY (PLAT NO. 4196)**

TAX MAP \*34 ZONED: RR-DEO PARCEL: 303  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=100' DATE: NOVEMBER '23, 2005



Bureau of Environmental Health  
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

September 1, 2006

Thomas and Mary McGunigal  
5300 Dorsey Hall Drive  
Ellicott City, Maryland 21042

RE: PERCOLATION TEST RESULTS -523531  
13613 Highland Rd

Dear Mr. and Mrs. McGunigal:

Percolation testing conducted August 25, 2006 on the referenced property indicated satisfactory and unsatisfactory soil conditions. Limiting factors included shallow rock and shallow soil mottling. Soil mottling indicates fluctuating water tables. Copies of the test results are enclosed.

Further review is contingent upon submission by a registered engineer/surveyor of a percolation certification plan showing the following:

- 1) Actual locations and elevations of all excavated test holes
- 2) Proposed building, sewage disposal area, and well location
- 3) Locations of any other relevant features such as slopes, streams, swales, and utility easements
- 4) Topography needs to be on 2' contour intervals
- 5) A note must be included certifying that all existing wells and septic systems within 100 feet of property boundaries have been shown
- 6) A note stating "All wells to be drilled prior to final plat approval. It is the developer's responsibility to schedule the well drilling prior to final plat submission. It will not be considered "government delay" if the well drilling holds-up the Health Department signature of the permit."
- 7) A note indicating that depicted topography reflects field-matched information
- 8) A health officer signature block stating "approved for private water and private sewer systems"
- 10) A MDE sewage disposal area statement is required
- 11) MDE minimum lot width statement
- 12) Include A# in the title block
- 13) The SDA on neighboring Lot 6 needs to reflect the percolation cert plan dated 6/19/06
- 14) Check symbols in legend for existing wells and proposed wells
- 15) Show driveways

If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-1771.

Sincerely,

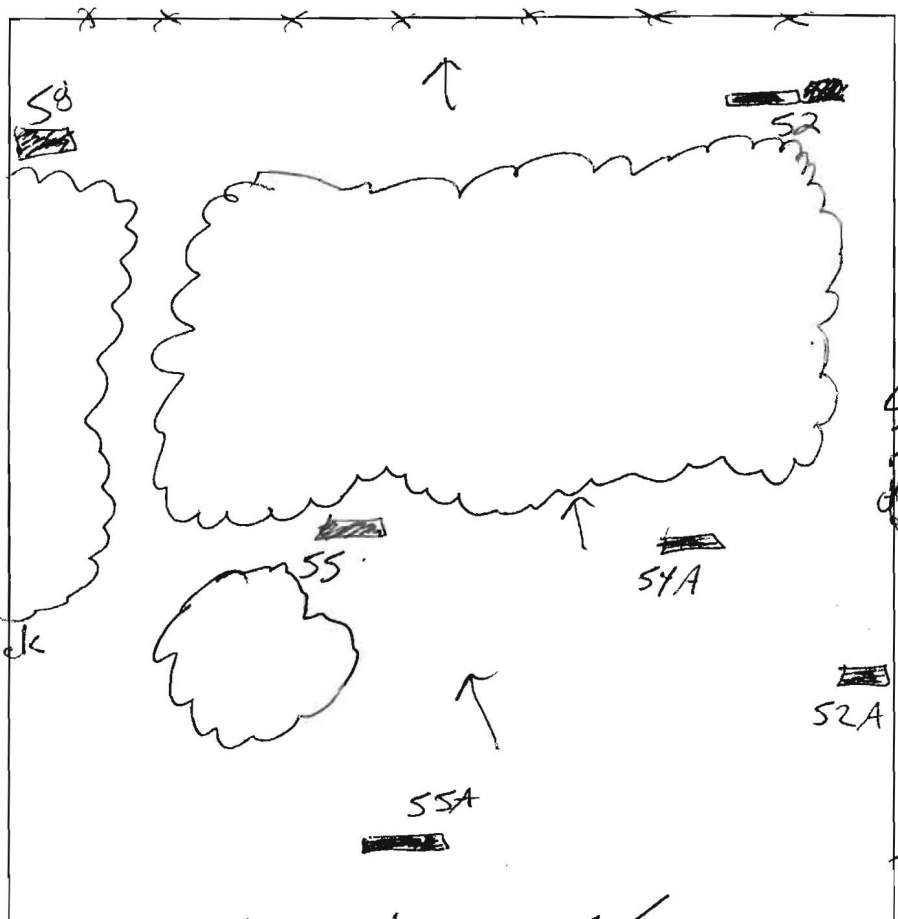
Sara Fegol, R.S  
Well and Septic Program  
Development Coordination Section

Enclosures

Cc: Land, Design and Development  
File

A/P

(SSA)  
brown L roots  
1' red brown  
SE ~~clay~~ clay skins micaceous  
3'5" red brown  
SE pl sg micaceous  
30% channery schist weathered rock  
12' (S4A)  
brown L OM  
2'5" red brown  
SE/pl 35% channery schist micaceous weathered rock  
4' too hard no test  
9' (S2A)  
brown L  
2'5" red brown  
se/dense se channery  
10' 3' red brown  
se sg  
pl 25% channery weathered rock veins  
10'



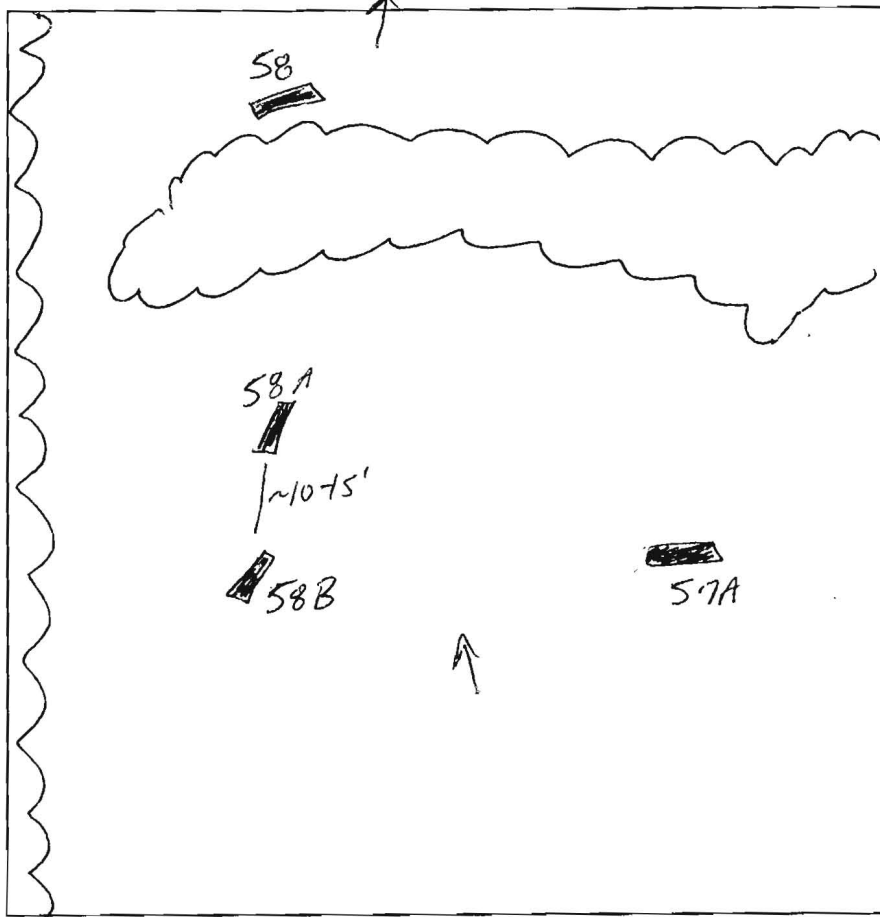
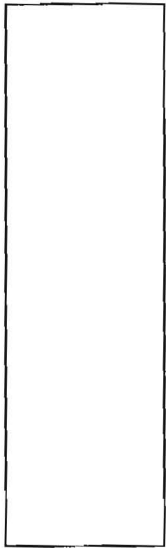
(S2)  
brown L  
red brown soil micaceous  
d(2) moist  
5' yellow, red, white soil m very moist  
5-10% gravel quartz  
mn lvs well compact well compact fine sg dense micaceous  
8'5" cave in water seepage  
12' H2O well  
13' (S5)  
brown L 5% gravel  
2'5" brown se/ls sg micaceous brown ls sg micaceous  
10' HB  
(S8)  
brown L  
red soil sbk  
3' brown/olive mn strabis  
se/dense se 5' V. moist  
9'5" se sg seepage micaceous  
12'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/25/06							
	SSA	5'/12'	9:19 <sup>04</sup>	9:21	9:25	4	P
	S4A	9'		too hard/HB			F
	S2A	10'		unusable			
	S2	13'					F
	S5	4'5"/10'	10:36 <sup>45</sup>	10:40 <sup>57</sup>	10:57	17	P
	S8	9'/12'		water			F

REMARKS Holes dug per plan very dry soil overall  
 SANITARIAN SF BACKHOE H. Johnson OTHERS K. Webster/owner.  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

# SSA = Effective area 3'5"

A/P \_\_\_\_\_



S7A  
 red brown  
 heavy L  
 pl  
 2'  
 red brown  
 se / sg.  
 micaceous  
 10-15%  
 gravel,  
 channel  
 ls weathered  
 rock  
 12'

S8A  
 brown L  
 ~3"  
 red brown  
 se /  
 dense se  
 m  
 4'  
 quartz  
 rock  
 4'5"  
 blue  
 15%  
 gravel  
 channel  
 weathered  
 rock  
 HB  
 8 1/2'

S8B  
 brown L  
 10% cobbles  
 red brown  
 se / dense  
 se  
 4'  
 red brown  
 se sg.  
 micaceous  
 weathered  
 rock  
 brown  
 ls sg  
 HB  
 10'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/25/06	S8A	0'					F
	S8B	5'5" / 10'	11:43 <sup>17</sup>	11:50 <sup>30</sup>	12:08	18	P
	S7A	4'5" / 12'	11:52	11:53	11:54		
			11:55 <sup>15</sup>	11:56 <sup>07</sup>	11:58 <sup>29</sup>	2	P

REMARKS Holes field staked - very dry soil overall  
 SANITARIAN SF BACKHOE M. Johnson OTHERS R. Webster / owner  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_



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](http://www.hchealth.org)

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

---

May 15, 2006

Mr. McGunigal  
5300 Dorsey Hall Drive  
Ellicott City, MD 21042

Re: Additional Sand Mound Testing  
A523531

Dear Mr. McGunigal,

Review of your additional, proposed sand mound tests conclude that testing must be done during the next wet season. Prior to the test date, the following criteria are needed on a submitted plan:

- Verify slopes that are at least 25%
- Field run topography at 1' intervals
- Show the septic disposal area for proposed lot 1

Due to the previous percolation testing, it is pertinent that sand mound testing be done in wet season only. If you have any questions, contact our office at 410-313-1771. Thank you for your time in this important matter.

Sincerely,

A handwritten signature in cursive script that reads 'Kacie Noonan'.

Kacie Noonan, R. S.  
Well & Septic Program

KN  
Cc: file

# MOUND TEST DATA SHEETS

Property I.D. Mcbrungal Highland Rd Lot # \_\_\_\_\_ Date 1/6/06  
 Sanitarian PAY Landscape Position FLAT  
 % Slope 0-2 Soil Type \_\_\_\_\_ Contractor Mike Johnson

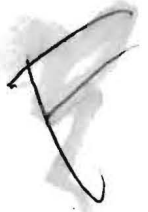
HOLE # 26A DEPTH OF TEST 19' START TIME 11:16

26A  
Brown  
 6" Dark orange  
 1" Brown  
 Heavy loam  
 2" Dark Red  
 orange  
 Brown as  
 soil  
~~TO ADVISE~~  
 3" orange  
 Brown  
 heavy  
 as  
 soil  
 4" Shown Reddy  
 +  
 P-1  
 nittles  
 5"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8 14/16	11:31 (15)	2 1/16 (15)		
8 12/16	11:46 (15)	2 1/16 (15)		
8 10/16	12:01 (15)	2 1/16 (15)		
8 8/16	12:16 (15)	2 1/16 (15)		

1/2" inch in 1 hour  
 FAILED

12:16  
 40% (W)



HOLE # 24 DEPTH OF TEST 22 START TIME 11:13

24  
Brown loam  
 1" Red brown  
 Heavy loam  
 soil  
 2" orange  
 brown  
 heavy  
 soil  
 3"  
 4" Reddy  
 orange  
 grit  
 cl  
 5"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8 13 2/16	11:28	2 2/16	(.15)	
8 9/16	11:43	4 1/16	(.25)	40%
8 7/16	11:58	5 1/16	(.31)	20%
8 5/16	12:13	4 1/16	(.25)	20%
7 13/16	12:28	4 1/16	(.25)	0%
7 11/16	12:43	4 1/16	(.25)	0%
7 9/16	12:58	4 1/16	(.25)	0%

12:13  
 40% (W)

# MOUND TEST DATA SHEETS

Property I.D. McKinnis Lot # \_\_\_\_\_ Date 11/6/06

Sanitarian P. Yencsik Landscape Position FLAT, - Lower in elevation than surrounding props.

% Slope NONE Soil Type \_\_\_\_\_ Contractor Mike Johnson

HOLE # \_\_\_\_\_ DEPTH OF TEST 20" START TIME 9:09

27A START 9:00

Blown LAM  
0-6 heavy loam - as  
0-6 heavy gbscl  
w/ Rock Strain  
5/8 coarse sand matrix  
- 0-6 ab-scl  
2  
TRANSITION  
Yellow/Slight micaceous scl-cl  
p-1 fine mottles

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8 5/16	9:24 (15)	4 1/16 (.68)	15 / 4 (22)	16
7 7/16	9:39 (15)	13 1/4 (.81)	18.5	16
6 2/16	9:54 (15)	10 1/16 (.62)	24.19	24
6 2/16	10:09	11 1/16 (.68)	22.05	9%
5 8/16	10:22	10 1/16 (.62)	24.19	9%
	10:37	11 1/16 (.68)	22.05	9%

1' by  
10:29?  
Y N

PASS

27A

28A

HOLE # 28A DEPTH OF TEST 21" START TIME 9:37

6:00

BROWN LAM  
thick loam  
1 1/2" 2" R.BEANS  
OBR  
Thick CL  
Red Brown  
PURPLE  
scl/cl  
w some coarse sub frags  
Yellow-brown thick well compacted scl/cl  
Slight mottles  
Slightly mottled cl

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
5 4/16	9:52	8 1/16 (.625)	.625	
4 11/16	10:07	8 1/16 (.625)	.5	20
4 2/16	10:22	10 1/16 (.625)	.625	20
3 9/16	10:37	10 1/16 (.625)	.625	0%
Repaired to 4 1/16	10:52	10 1/16 (.625)	.625	0%
	11	11	.625	0%

1' by  
10:37  
Y N

PASS

PASS

# MOUND TEST DATA SHEETS

Property I.D. \_\_\_\_\_ Lot # \_\_\_\_\_ Date 1/15/06

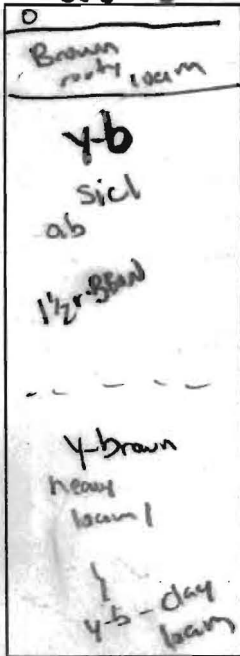
Sanitarian PAY Landscape Position FLAT - Gentle slope

% Slope \_\_\_\_\_ Soil Type cl Contractor Mike Johnson

HOLE # 28 DEPTH OF TEST 23" START TIME 1:34

28 + 25

9.0% - START LEVEL



Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8 31/32	1:49 (15)	1/32"		
8 15/16	2:04 (15)	1/32"		
11/8 15/16	2:19 (15)	0		
	2:34			
<b>FAILED TO SLOW</b>				

1" before  
2:34

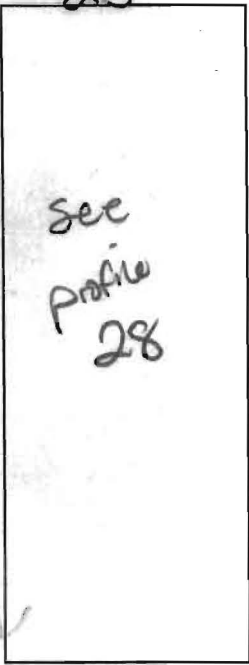
Very SLOW

24"

HOLE # \_\_\_\_\_ DEPTH OF TEST 19" START TIME 2:02

25

9%



Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
8 2/16	2:17 (15)	14/16 (.87)	15 14/16 (17.24)	
7 7/16	2:32 (15)	1" (1.0)	15 1/16 (15.00)	13%
6 7/16	2:47 (15)	1 5/16 (.93)	(16.12)	7%
5 3/16	3:02	1 (1)	(15.00)	7%

1" before  
3:02







# MOUND TEST DATA SHEETS

Property I.D. McBungal Lot # \_\_\_\_\_ Date 1/6/06  
 Sanitarian PAY Landscape Position FLAT  
 % Slope 0-2 Soil Type \_\_\_\_\_ Contractor Mike Jensen

HOLE # 31A DEPTH OF TEST 18 START TIME 11:06  
31A 8 17/16

Brown L 6  
Dark Brown  
Heart  
Loam/CL  
(ab)  
Dark brown  
orange  
L/CL  
(ab)  
Orange brown  
SCL  
Yellow brown  
CL 5

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
<u>8 14.5/16</u>	<u>11:21 (15)</u>	<u>2 1/16 (15)</u>		
<u>8 12/16</u>	<u>11:34 (15)</u>	<u>2 1/16 (15)</u>		
<u>8 11/16</u>	<u>11:51 (15)</u>	<u>1/16 (15)</u>		
	<u>12:06 (15)</u>			

5/16 of an inch in 1 hour — Failed  
 Check if located  
 wet soils — Row close to line

Failed  
 12:06  
 40 (N)

HOLE # 25A DEPTH OF TEST 21" START TIME 11:40  
25A 33 15/16

Brown L 6  
Dark Brown  
Old  
Brown  
SCL  
Dark brown  
orange  
CL - ab  
Yellow  
Brown  
CL  
slightly  
moistened 5

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate(ET/MD)	% Change
<u>33 15/16</u>	<u>11:25 (15)</u>	<u>0 (15)</u>		
<u>11</u>	<u>11:40 (15)</u>	<u>0 (15)</u>		
<u>33 14/16</u>	<u>11:55 (15)</u>	<u>1/16 (15)</u>		
<u>3</u>	<u>12:10 (15)</u>			

1/16 of an inch in one hour — FAILED

Failed  
 12:10  
 40 (N)

**LEGEND**

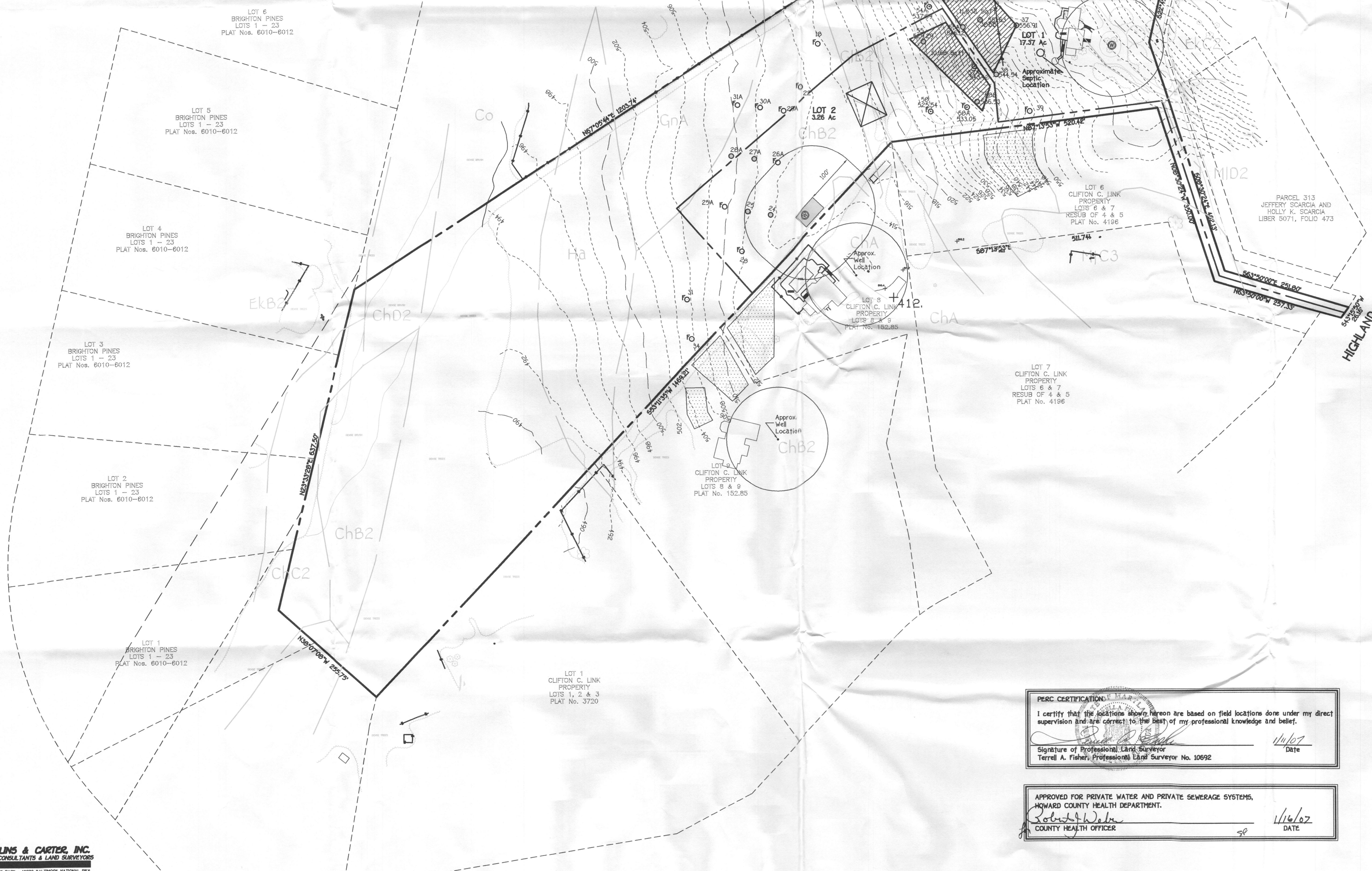
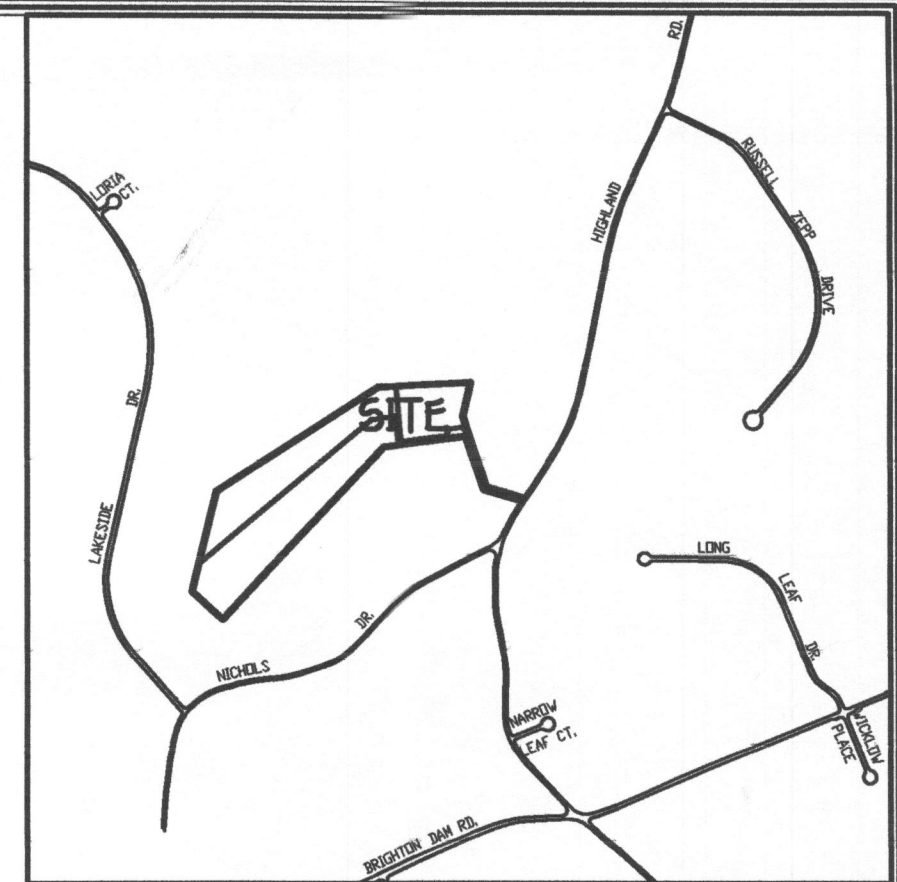
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES EXISTING WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- ⊗ DENOTES PROPOSED HOUSE
- ⊗ DENOTES 25X AND GREATER SLOPE
- ⊗ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

**SOILS LEGEND**

SOIL	NAME	CLASS
* Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
* GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnC3	Glenelig loam, 8 to 15 percent slopes, severely eroded	B
GnB2	Glenelig loam, 3 to 8 percent slopes, moderately eroded	B
Ekb2	Eloak silt loam, 8 to 15 percent slopes, moderately eroded	B
** Ha	Hatboro silt loam	D
Mid2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
Ekb2	Eloak silt loam, 3 to 8 percent slopes, moderately eroded	B
MtC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

**NOTES:**

- \* Hydric soils and/or contains hydric inclusions
- \*\* May contain hydric inclusions
- † Generally only within 100-year floodplain areas



**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT DELAY IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 7613 FOLIO 120
10. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
11. A LOW PRESSURE DISE SYSTEM IS REQUIRED FOR LOT 2. A DESIGN WILL BE REQUIRED AT BUILDING PERMIT STAGE.
12. LOT 2 HAS A 5 BED ROOM MAXIMUM.

**PERC CERTIFICATION**

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

Signature of Professional Land Surveyor: *Terrell A. Fisher* 1/16/07 Date

Terrell A. Fisher, Professional Land Surveyor No. 10692

**OWNER AND DEVELOPER**

Thomas McGunigal  
Mary McGunigal  
13613 Highland Rd  
Clarksville, Md. 21029  
Phone: 301-854-3347

**APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.**

Signature of County Health Officer: *Robert H. Wahn* 1/16/07 Date

Robert H. Wahn  
COUNTY HEALTH OFFICER

**PERC CERTIFICATION PLAT  
LOTS 1 AND 2  
MCGUNIGAL PROPERTY**

TAX MAP #34 ZONED: RR-DEO PARCEL: 303  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=100' A-523531 DATE: January 11, 2007

**LEGEND**

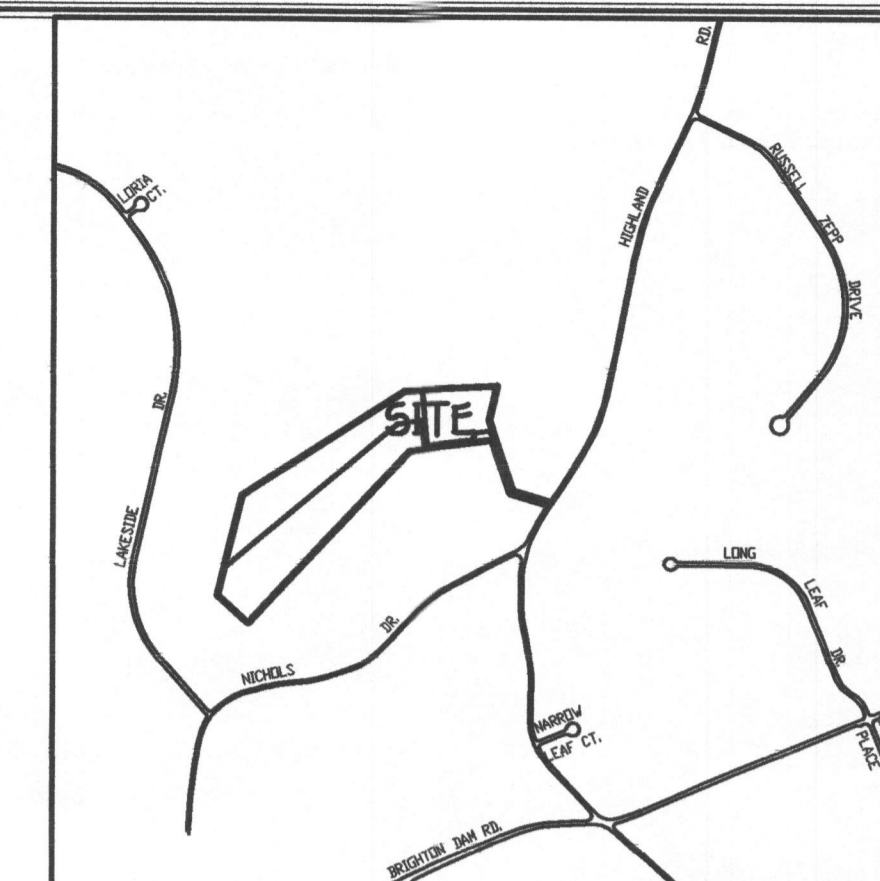
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES EXISTING WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 25% AND GREATER SLOPE
- DENOTES 1500 Sq.ft. ALTERNATE WELL SITE

**SOILS LEGEND**

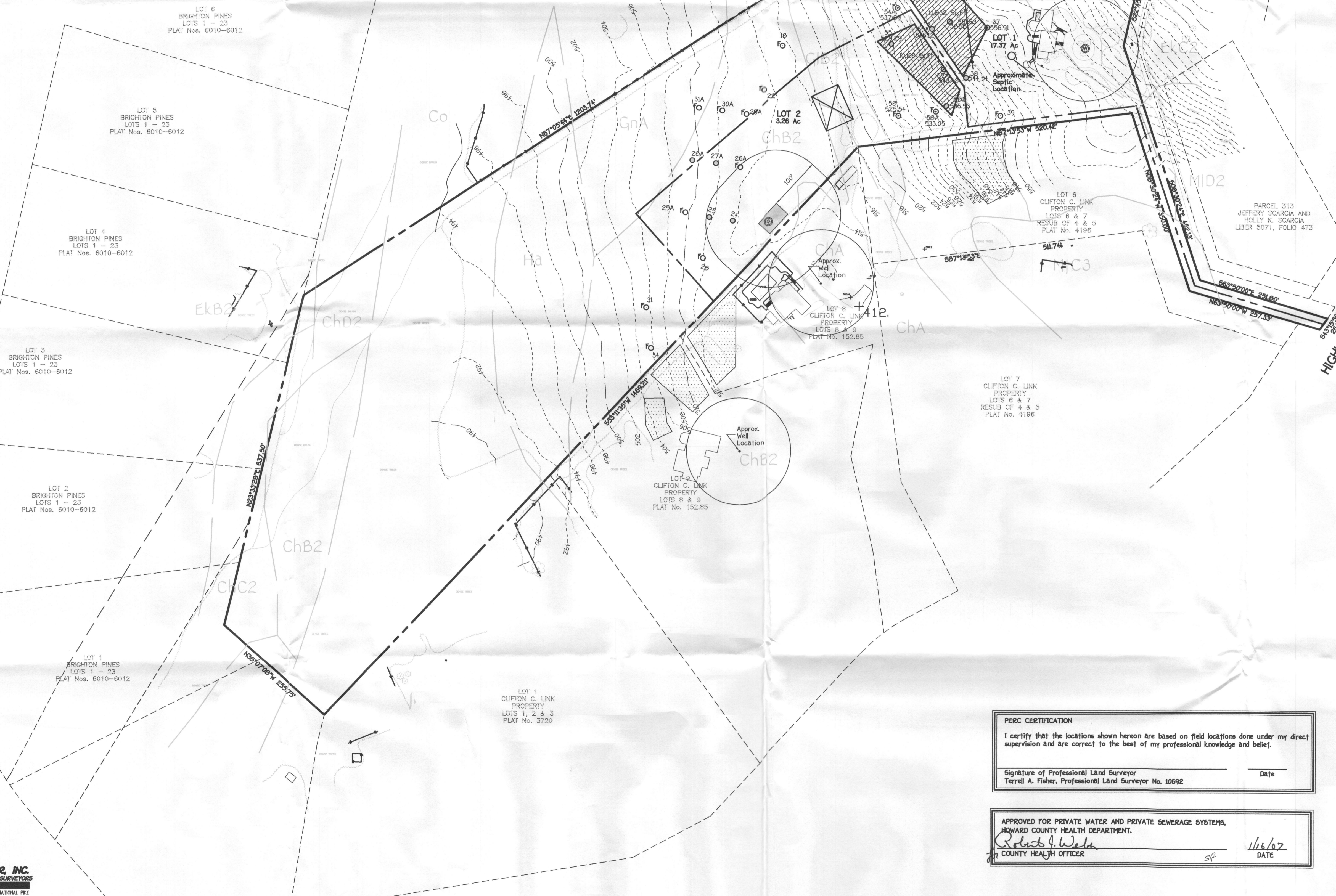
SOIL	NAME	CLASS
* Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
* GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnC3	Glenig loam, 8 to 15 percent slopes, severely eroded	B
GIB2	Glenig loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elk oak silt loam, 8 to 15 percent slopes, moderately eroded	B
** Ha	Hatboro silt loam	D
MID2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
EkB2	Elk oak silt loam, 3 to 8 percent slopes, moderately eroded	B
MtC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

**NOTES:**

- \* Hydric soils and/or contains hydric inclusions
- \*\* May contain hydric inclusions
- † Generally only within 100-year floodplain areas



**VICINITY MAP**  
SCALE: 1" = 1200'



**GENERAL NOTES:**

- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
- ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
- ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
- TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARGROVE AERIALS ON JULY, 2005.
- BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
- DEED REFERENCE LIBER 7613 FOLIO 120
- ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- A LOW PRESSURE DISE SYSTEM IS REQUIRED FOR LOT 2. A DESIGN WELL BE REQUIRED AT BUILDING PERMIT STAGE.
- LOT 2 HAS A 5 BEDROOM MAXIMUM.

**OWNER AND DEVELOPER**

Thomas McGunigal  
Harry McGunigal  
13613 Highland Rd  
Clarksville Md, 21029  
Phone: 301-854-3347

**PERC CERTIFICATION**  
I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.  
Signature of Professional Land Surveyor: Terrell A. Fisher, Professional Land Surveyor No. 10692  
Date: \_\_\_\_\_

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
Signature of Health Officer: \_\_\_\_\_  
DATE: 1/16/07

**PERC CERTIFICATION PLAT  
LOTS 1 AND 2  
MCGUNIGAL PROPERTY**

TAX MAP #34 ZONED: RR-DEO PARCEL: 303  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=1100' A-523531 DATE: January 11, 2007

FILE INQUIRY NOTES

McGunnigal Property LOTS 1-4  
RESULTS OF REVIEW FOR FILE

DATE

5/5/06 Mike,  
I would state in a letter...  
• Field run topo for LOT 4  
Verify slopes < 25%  
• Since testing has been done, additional testing shall be done during 2007 wet season.  
Where the ~~check~~ is it? • SDA LOT 1 needs to be established  
Bizzare to not be on plan. OK?  
KC  
I agree, but state that field run topo @ 1ft intervals is required for lots w/ mounds.  
M. Jones

Land Design & Development, Inc.  
5300 Dorsey Hall Drive, Suite 102  
Ellicott City, MD 21042  
Phone: (443) 367-0422  
Fax: (443) 367-0420

To: PETER YENCZYK From: ROBERT WEBSTER  
Fax: \_\_\_\_\_ Date: JAN 9, 2006 443-367-0422  
Phone: \_\_\_\_\_ Pages: EX 219  
Re: MCGONIGAL PROPERTY CC:  
PERC TEST RESULTS TO DATE  
 Urgent  For Review  Please Comment  Please Reply  Please Recycle  
2 FILE

•Comments:

A PERC TEST RESULTS PLAN IS ATTACHED FOR  
THE FILE.

PASSED 14

FAILED 11

NOT TESTED 7

TO BE TESTED 6 (ALL SAND MOUND)

PLEASE HAVE ADDITIONAL TEST VATES SET UP  
AND HAVE THE PERSON THAT WILL CONDUCT THEM  
GIVE ME A CALL.

THANKS & GOOD LUCK,  
ROBERT

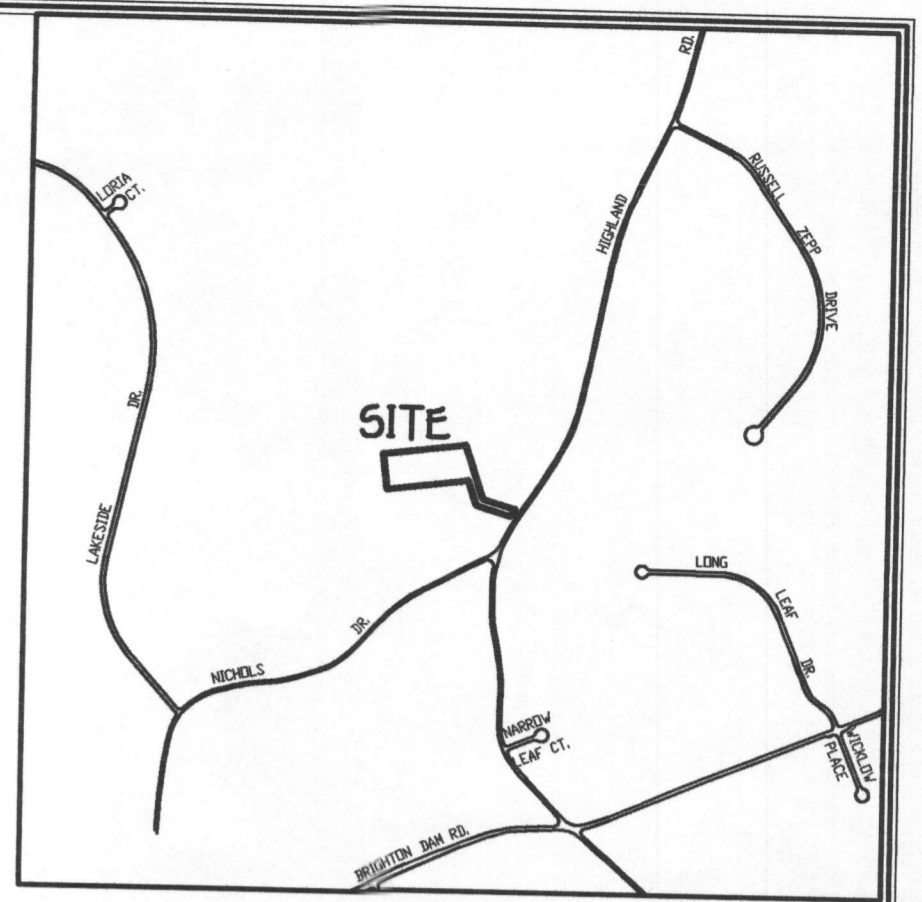
**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED PERC
- ⊠ DENOTES PROPOSED HOUSE
- ⊠ DENOTES 25% AND GREATER SLOPE
- ⊠ DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

**SOILS LEGEND**

SOIL	NAME	CLASS
* Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
* GnA	Glenville silt loam, 0 to 3 percent slopes	C
GIC3	Glenelg loam, 8 to 15 percent slopes, severely eroded	B
GIB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elkoak silt loam, 8 to 15 percent slopes, moderately eroded	B
** Ha	Hartboro silt loam	D
MID2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
EkB2	Elkoak silt loam, 3 to 8 percent slopes, moderately eroded	B
MYC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

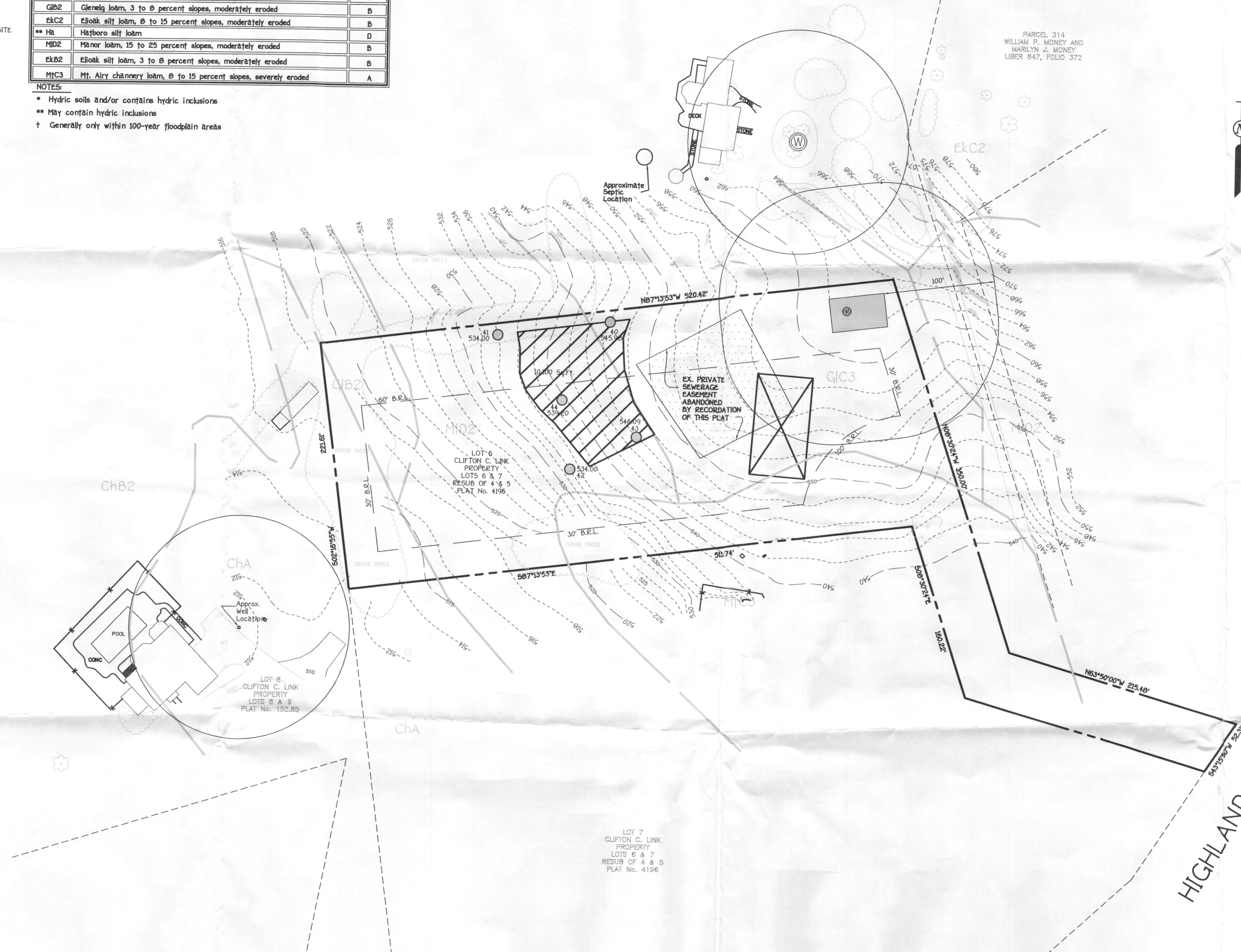
- NOTES:**
- \* Hydric soils and/or contains hydric inclusions
  - \*\* May contain hydric inclusions
  - † Generally only within 100-year floodplain areas



**VICINITY MAP**  
SCALE: 1" = 1200'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION AND OR BUILDING PERMIT. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 7613 FOLIO 120
10. DENOTES EXISTING PRIVATE SEWERAGE EASEMENT PER PLAT NO. 4196 TO BE ABANDONED.



**PERC CERTIFICATION**

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

Signature of Professional Land Surveyor: *Terrell A. Fisher* Date: 6/19/06  
 Terrell A. Fisher, Professional Land Surveyor No. 10692

**APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.**

Signature of County Health Officer: *Robert L. Walker* Date: 6/22/06  
 COUNTY HEALTH OFFICER KN MGD

**PERC RELOCATION PLAT**  
**LOT 6 - CLIFTON C. LINK PROPERTY**  
**(PLAT NO. 4196)**

TAX MAP #34 ZONED: RR-DEO PARCEL: 303  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1"=50' DATE: June 19, 2006

**LEGEND**

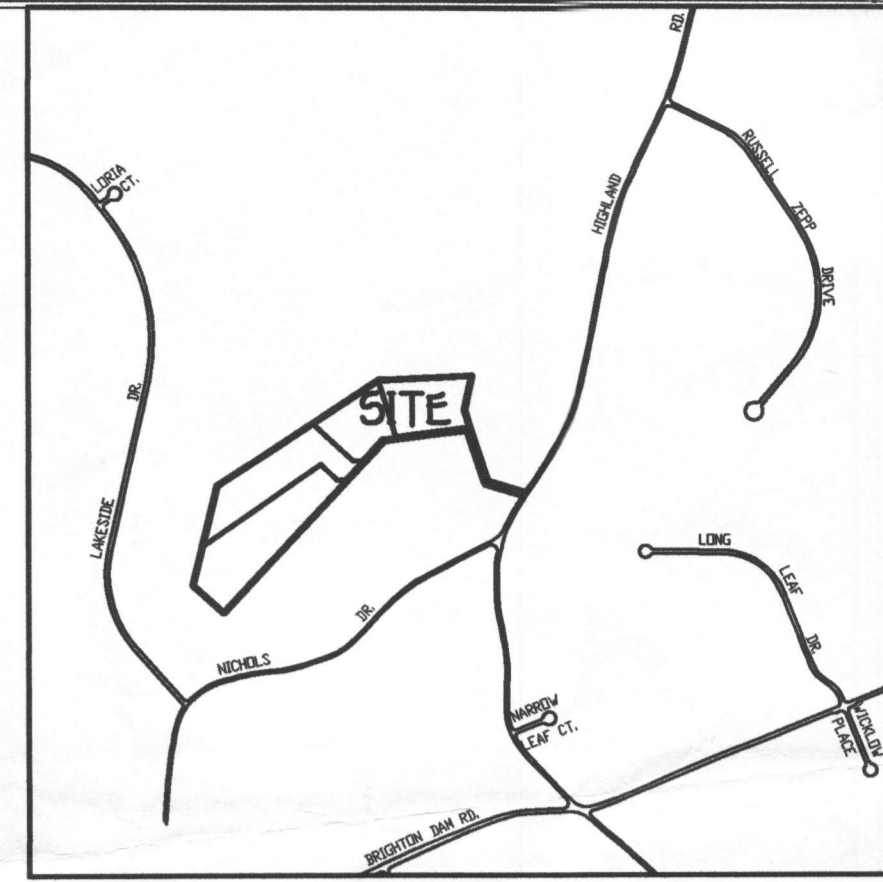
- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 25X AND GREATER SLOPE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

**SOILS LEGEND**

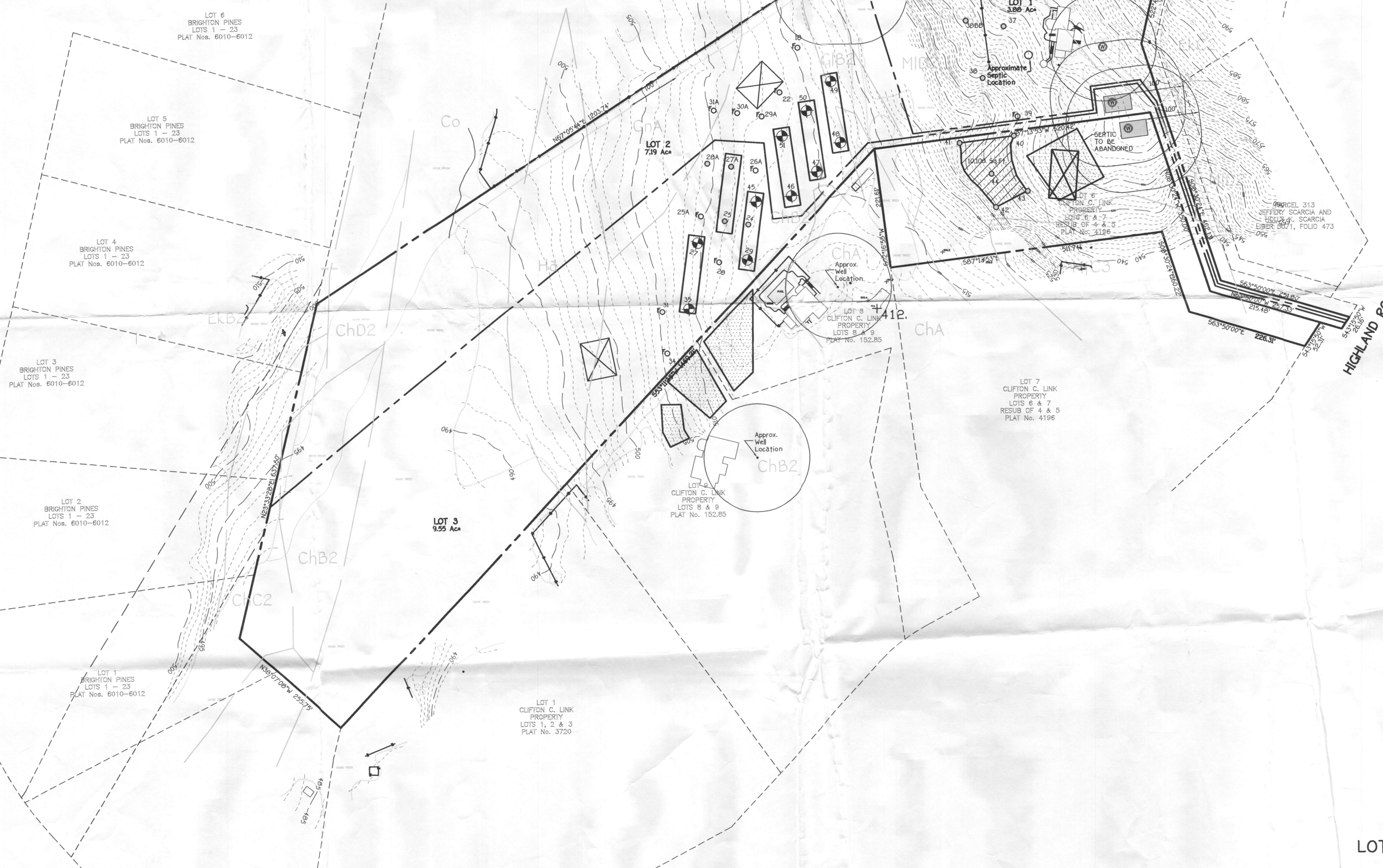
SOIL	NAME	CLASS
* Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
* GnA	Glenville silt loam, 0 to 3 percent slopes	C
GnC3	Glenelg loam, 8 to 15 percent slopes, severely eroded	B
GnB2	Glenelg loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Elkoak silt loam, 8 to 15 percent slopes, moderately eroded	B
** Ha	Hatboro silt loam	D
HD2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
EkB2	Elkoak silt loam, 3 to 8 percent slopes, moderately eroded	B
MHC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

**NOTES:**

- \* Hydric soils and/or contains hydric inclusions
- \*\* May contain hydric inclusions
- † Generally only within 100-year floodplain areas



**VICINITY MAP**  
SCALE: 1" = 1200'



**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR SAND MOUND SYSTEM AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 7613 FOLIO 120
10. DENOTES EXISTING PERC ARE PER PLAT NO. 4196 TO BE ABANDONED.

**PERC APPLICATION PLAT FOR LOTS 1 THRU 4 SAND MOUND SYSTEMS MCGUNIGAL PROPERTY AND PERC RELOCATION PLAT LOT 6 - CLIFTON C. LINK PROPERTY (PLAT NO. 4196)**

TAX MAP \*34 ZONED: RR-DEO PARCEL: 303  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=100' DATE: April 14, 2006

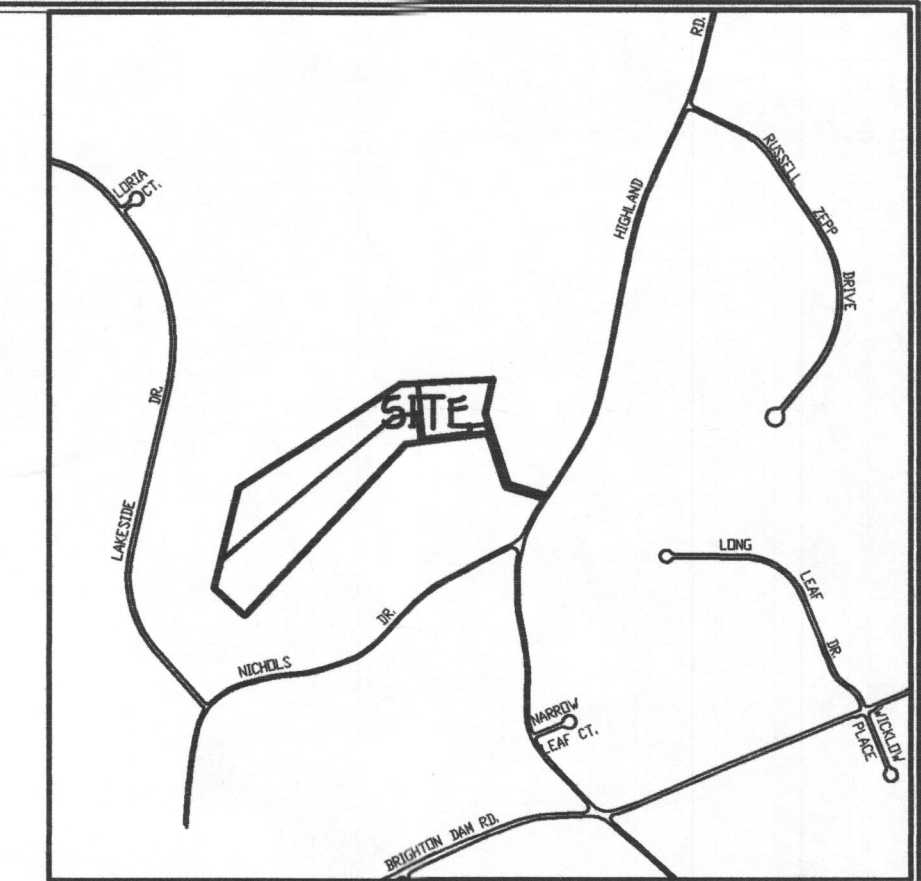
**LEGEND**

- - - - - EXISTING 2' CONTOURS
- - - - - EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED PERC
- DENOTES PROPOSED HOUSE
- DENOTES 25% AND GREATER SLOPE
- DENOTES 1500 Sq.Ft. ALTERNATE WELL SITE

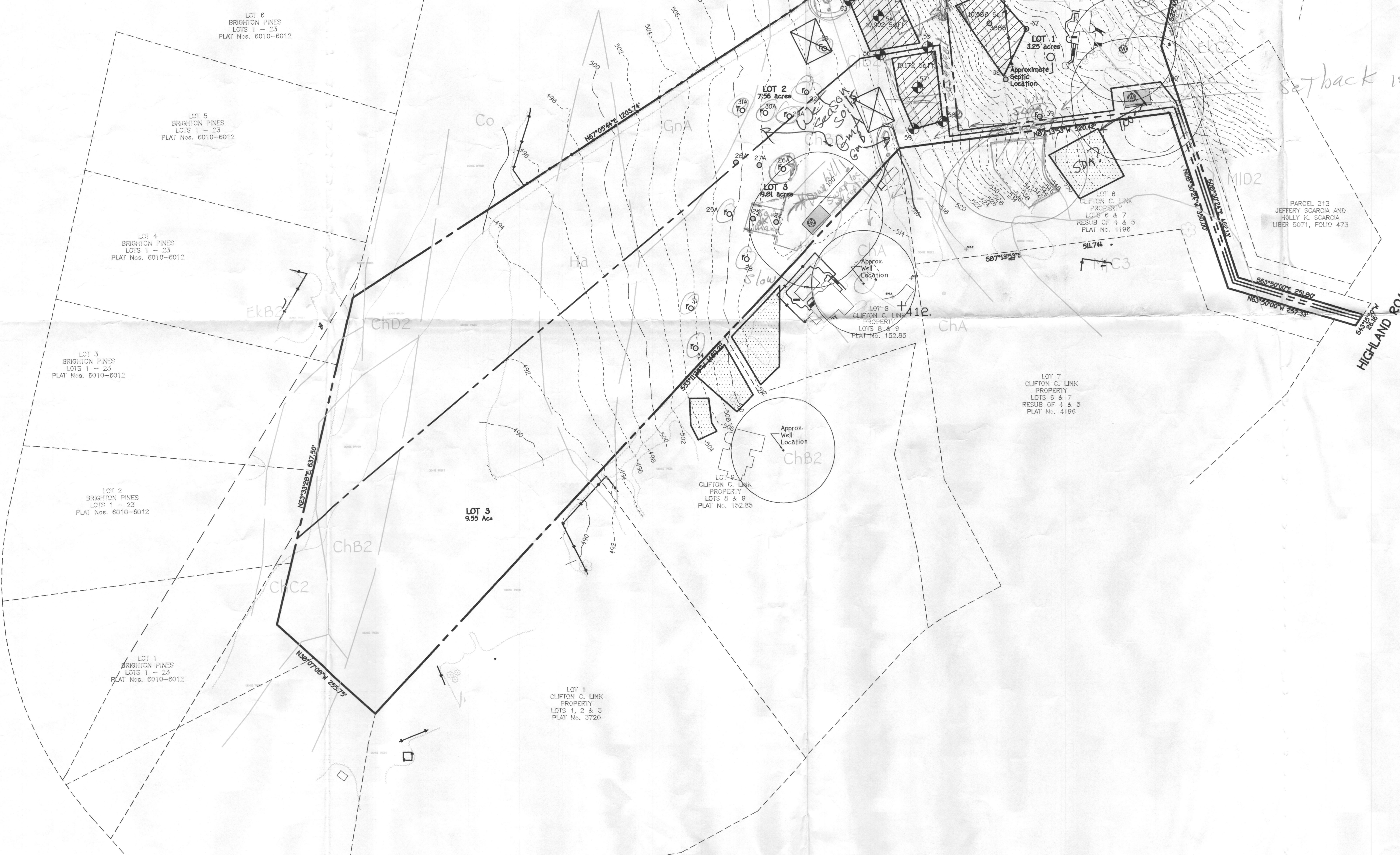
**SOILS LEGEND**

SOIL	NAME	CLASS
* Co	Codorus silt loam	C
ChB2	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
ChC2	Chester silt loam, 8 to 15 percent slopes, moderately eroded	B
ChA	Chester silt loam, 0 to 3 percent slopes	B
ChD2	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
* GnA	Glenville silt loam, 0 to 3 percent slopes	C
GIC3	Glenelig loam, 8 to 15 percent slopes, severely eroded	B
GIB2	Glenelig loam, 3 to 8 percent slopes, moderately eroded	B
EkC2	Eliok silt loam, 8 to 15 percent slopes, moderately eroded	B
** Ha	Hartboro silt loam	D
MID2	Manor loam, 15 to 25 percent slopes, moderately eroded	B
EkB2	Eliok silt loam, 3 to 8 percent slopes, moderately eroded	B
MIC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A

- NOTES:**
- \* Hydric soils and/or contains hydric inclusions
  - \*\* May contain hydric inclusions
  - † Generally only within 100-year floodplain areas



**VICINITY MAP**  
SCALE: 1" = 1200'



**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. ALL WELLS SHALL BE DRILLED PRIOR TO FINAL PLAT RECORDATION. IT IS THE DEVELOPER'S RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED "GOVERNMENT DELAY" IF THE WELL DRILLING HOLDS-UP THE HEALTH DEPARTMENT SIGNATURE OF THE RECORD PLAT.
7. TOPOGRAPHY SHOWN IS FROM FLOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
8. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
9. DEED REFERENCE LIBER 763 FOLIO 120
10. DENOTES EXISTING PERC ARE PER PLAT NO. 4196 TO BE ABANDONED.

**PERC APPLICATION PLAT  
LOTS 1 THRU 3  
MCGUNIGAL PROPERTY**

TAX MAP \*34 ZONED: RR-DEO PARCEL: 303  
FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1"=100' DATE: July 31, 2006

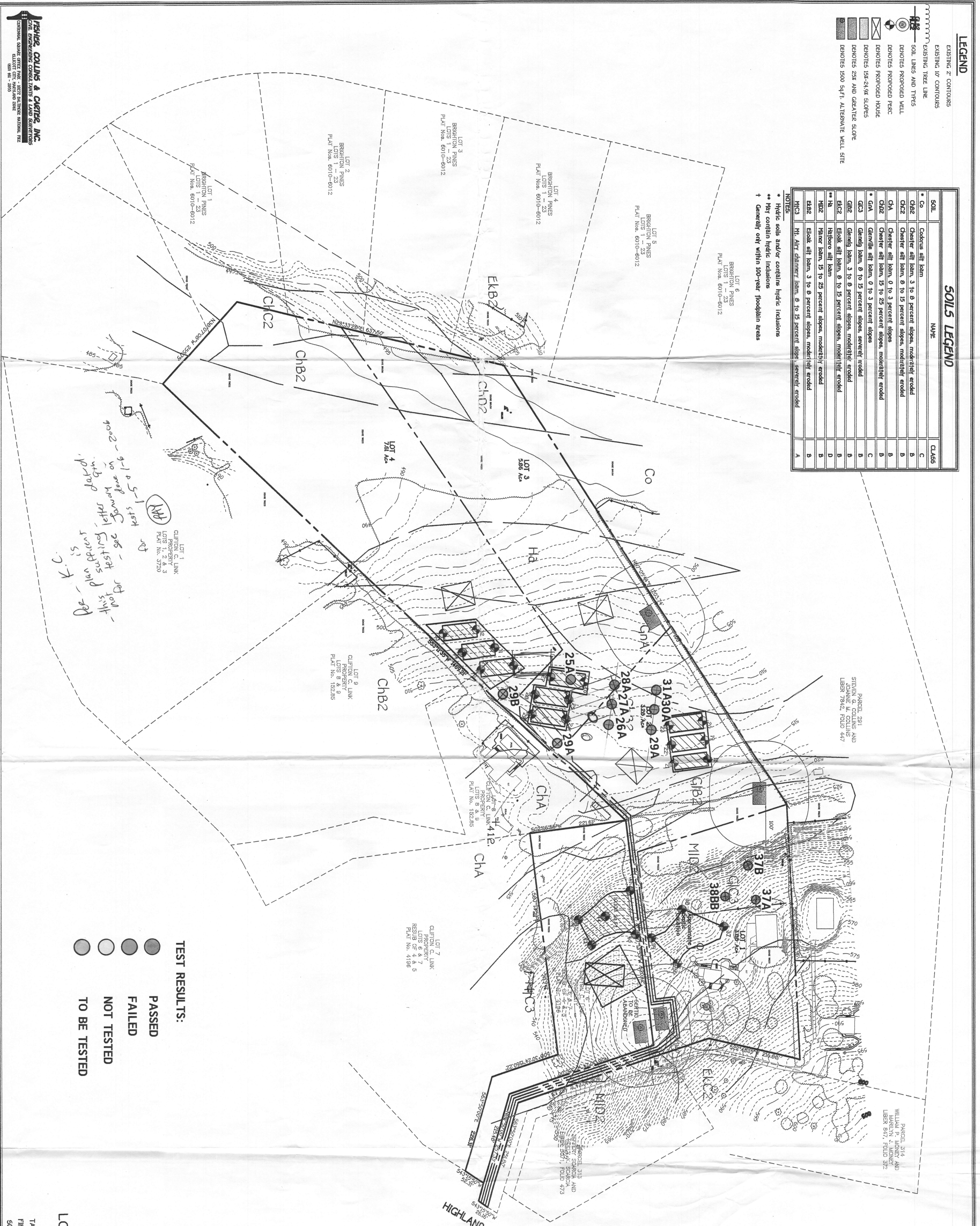
**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DEMOTES PROPOSED WELL
- DEMOTES PROPOSED PEAC
- DEMOTES PROPOSED HOUSE
- DEMOTES 15%-24.9% SLOPES
- DEMOTES 25% AND GREATER SLOPE
- DEMOTES 1500 SQ-Ft. ALTERNATE WELL SITE

**SOILS LEGEND**

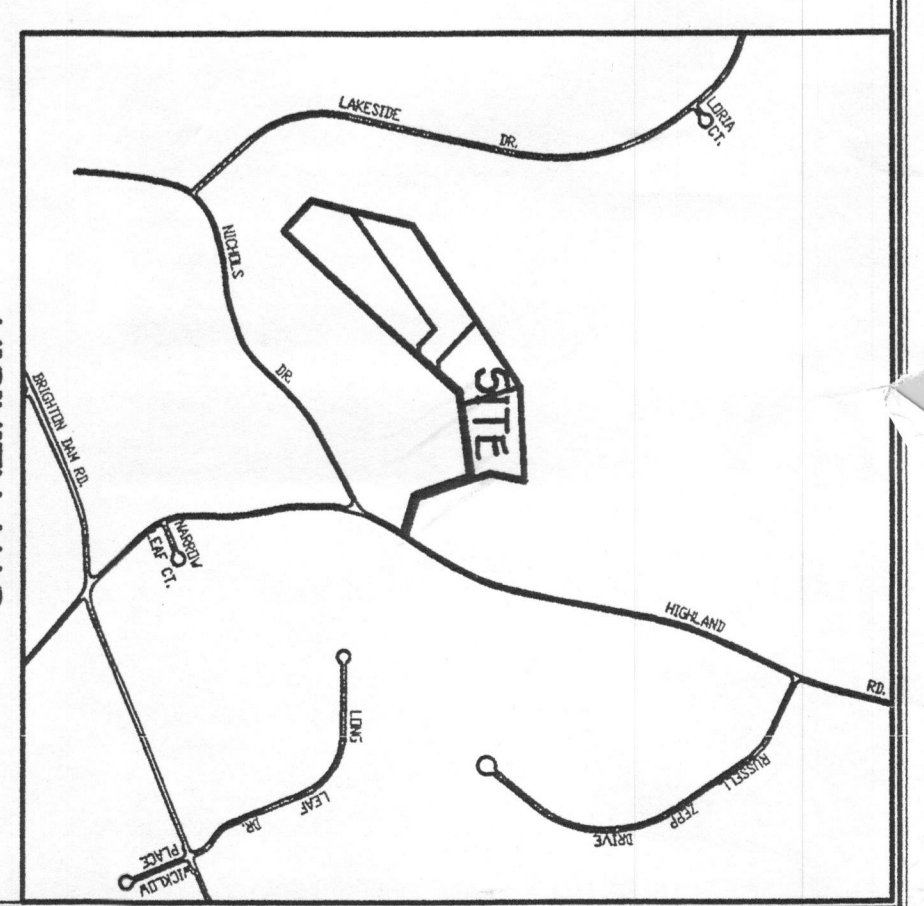
SOIL	NAME	CLASS
Co	Codorus silt loam	C
Ch2c	Chester silt loam, 3 to 8 percent slopes, moderately eroded	B
Ch2z	Chester silt loam, 0 to 15 percent slopes, moderately eroded	B
Ch4	Chester silt loam, 0 to 3 percent slopes	B
Ch2z	Chester silt loam, 15 to 25 percent slopes, moderately eroded	B
Gn3	Glenville silt loam, 0 to 3 percent slopes	C
Gn3	Glenville silt loam, 3 to 8 percent slopes, severely eroded	B
Gn2c	Glenville silt loam, 3 to 8 percent slopes, moderately eroded	B
Gn2z	Glenville silt loam, 0 to 15 percent slopes, moderately eroded	B
Hs	Hickory silt loam	D
Mi2z	Milford loam, 15 to 25 percent slopes, moderately eroded	B
Eh2z	Ehok silt loam, 3 to 8 percent slopes, moderately eroded	B
Mi3c	Mt. Airy chert loam, 0 to 15 percent slopes, severely eroded	A

NOTES:  
 \* Hydric soils and/or contains hydric inclusions  
 \*\* May contain hydric inclusions  
 † Generally only within 100-year floodplain areas



PARCEL 231 AND SIBBANE L. COLLINS LIBER 7842, FOLIO 447

PARCEL 314 WILLIAM F. MOORE AND MARILYN J. MOORE LIBER 847, FOLIO 372



**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR SAID PROPERTY. THE EASEMENT IS TO BE MAINTAINED AND KEPT OPEN FOR THE USE OF THE SEWERAGE SYSTEM. THE EASEMENT IS RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE RESTRICTIONS SHALL REMAIN IN FULL FORCE AND EFFECT UNTIL A PUBLIC SEWERAGE SYSTEM, THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT, RECONSTRUCTION OF A HOURED SEWERAGE SYSTEM TO BE CONSIDERED AS A HOURED ADJUSTMENT TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
2. ALL HOUSE SITES SHOWN COMPLY WITH HENRIKIN BUILDING RESTRICTION REGULATIONS.
3. ALL HOUSE SITES SHOWN COMPLY WITH THE HENRIKIN OWNERSHIP REGULATIONS.
4. THE DEVELOPERS RESPONSIBILITY TO SCHEDULE THE WELL DRILLING PRIOR TO FINAL PLAT SUBMISSION. IT WILL NOT BE CONSIDERED GOVERNMENT RELYANT IN THE WELL DRILLING HOLD-UP THE HEALTH DEPARTMENT
5. TOPOGRAPHY SHOWN IS FROM TOWN CONTOUR MAPPING PROVIDED BY HARFORD AERIALS ON JULY, 2005.
6. BOUNDARY LINES BASED ON AVAILABLE DEED OR RECORD WITHOUT THE DEED REFERENCE LIBER 783 FOLIO 120.
7. DEMOTES EXISTING PERC ARE PER PLAT NO. 4196 TO BE ABANDONED.

**PERC RESULTS AS OF: 1/6/06**  
**PERC APPLICATION PLAT**  
**FOR**  
**LOTS 1 THRU 4**  
**SAND MOUND SYSTEMS**  
**MCGUNIGAL PROPERTY**  
**AND**  
**PERC RELOCATION PLAT**  
**LOT 6 - CLIFTON C. LINK PROPERTY**  
**(PLAT NO. 4196)**

TAX MAP 34 ZONED: RR-250 PARCEL: 303  
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1"=100' DATE: NOVEMBER 18, 2005



Howard County  
Health Department

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](http://www.hchealth.org)

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

---

**MEMORANDUM**

TO: Mr. McGunigal

FROM: Peter Yencsik, Sanitarian  
Well and Septic Program **PAY**  
Development Coordination Section

RE: 13613 Highland Rd  
Title: McGunigal Property, 4 proposed lots.

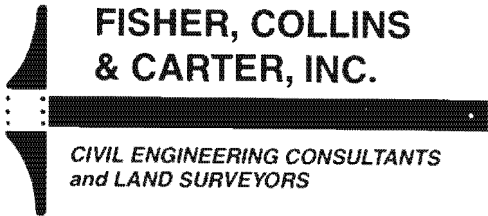
DATE: January 9, 2006

---

The following comments apply to the plan prepared by Fisher, Collin and Carter Inc. The revisions/ corrections mentioned below must be corrected prior to further percolation test scheduling. Applicant is advised to revise and resubmit a new percolation plan. These comments apply to the percolation testing plan that was perced on January 5-6 by sanitarian Pete Yencsik.

- Locate on perc plan all holes tested that where not submitted on the original percolation plan. Denote which holes are a PASS , FAIL, or NOT TESTED.
- Reconfigure new areas for sand mound tests. Show the proper sand mound dimensions (check enclosed highlighted material). These sand mound areas must be properly drawn on perc plan prior to any follow up sand mound testing. (Staff note- 18 sand mound tests where paid for (three lots) And only 12 have been tested at this time.)
- Verify that additional tests performed on Jan 5-6 are not located on Wet season or Do Not Test soils.
- Please Put the revised plans to the attention of Kacie Noonan R.S., If they are submitted after my resignation date of 1/13/2006
- Verify that the septic area for the existing house is at least 10,000 square feet and is not located within 25 feet of 25% slopes or greater.

CC: File  
FCC  
Robert Webster.



**FISHER, COLLINS  
& CARTER, INC.**

CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

# Transmittal

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

<b>To:</b> Bureau of Environmental Health 7178 Columbia Gateway Dre Columbia, MD 21046-4544	<b>Attn:</b> Sara <b>Fax:</b> 443-367-0424 <b>Phone:</b> 443-367-0415
---	---

<b>From:</b> Terry Fisher	<b>CC:</b> Mr. McGunigal
---------------------------	--------------------------

<b>Re:</b> McGunigal Lots 1 & 2	<b>W.O.#</b> 05050-3001
<b>Date:</b> January 10, 2007	<b>Pages:</b> 1 <b>Page(s) including this cover</b>

<b>We are forwarding:</b> <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input type="checkbox"/> For Review & Comment
---

Remarks:

**Don:**

**Enclosed please find an original mylar and two (2) prints. This drawing is entitled " Perc Certification Plat, "McGunigal Property Lots 1 & 2.**

Thank you,

**CONFIDENTIALITY NOTICE**

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution ( except to the intended recipient ), copying, or disclosure of this transmission is strictly prohibited.

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.

November 28, 2005

Mr. Peter Yencsik, Environmental Sanitarian  
Development Coordination Section  
Well and Septic Program  
Bureau of Environmental Health  
7178 Columbia Gateway Dr.  
Columbia, MD 21046

RE: Perc Application Plan  
Lots 1 thru 4  
McGunigal Property  
and  
Perc Relocation Plat  
Lots 6 – Clifton C. Link Property

Dear Pete:

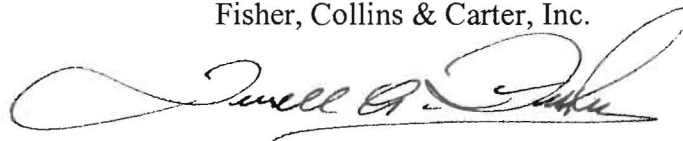
Our office is in receipt of your letter dated November 22, 2003 (Copy enclosed).

In response to your comments contained therein, we have added the existing well locations for Lots 8 (#13510 Nichols Drive) and Lot 9 (#13520 Nichols Drive) to the above referenced perc application plan.

Accordingly, we are enclosing two (2) copies of this perc plan dated November 23, 2005 for your use in scheduling the associated perc testing dates.

Thanks, as always, for your assistance.

Very truly yours,  
Fisher, Collins & Carter, Inc.



Terrell A. Fisher, P.E., L.S.

WO #05050-3001  
c.c. Mr. McGunigal (w/print)

to/Ashleigh 8/2

\* OK To perc  
but will

lots  
2 & 3

need some

corrections for

perc cert.

25%

\* Lot 1 well  
designate as existing

lot 6

Show approved  
location of SDA not

1 corner to  
proposed locate