

APPLICATION

PERCOLATION TESTING

A 518645

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 4/30/2003

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER DOUGLAS & LINDA GASCH

ADDRESS 3120 CABIN RUN
WOODBINE, MD 21797-7933 PHONE 301-362-0700

AGENT OR PROSPECTIVE BUYER MILDENBERG BRENDER & ASSOCIATES, INC.

ADDRESS 5072 DORSEY HALL DR. SUITE 202
ELLICOTT CITY, MD 21042 PHONE 410-997-0296

PROPERTY LOCATION:

SUBDIVISION GASCH PROPERTY LOT NO. 2

ROAD AND DESCRIPTION SOUTHEAST END OF CABIN RUN ROAD, LOCATED OFF
WOODBINE RD, APPROXIMATELY 1 MILE SOUTH OF FLORENCE RD.

TAX MAP 13 PARCEL # P.247, P.5 & P/0 P.6

SIZE OF LOT 4.72 AC ± TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

⑤

Or Br Loam and Topsoil

3.5'-4'

Red Br Loam Very Granular

4.5'-5'

Red and Or Br Sa Loams ~30% Rock

7'

~50% Weathered Rock Water

11.5'

⑧

Or Br Very Granular Loam

3.5'

Or Br Sa Loam 25-30% Rock

7'

Rock Increasing to Close to 50% Weathered

11'

⑨

Red Br Heavy Loam

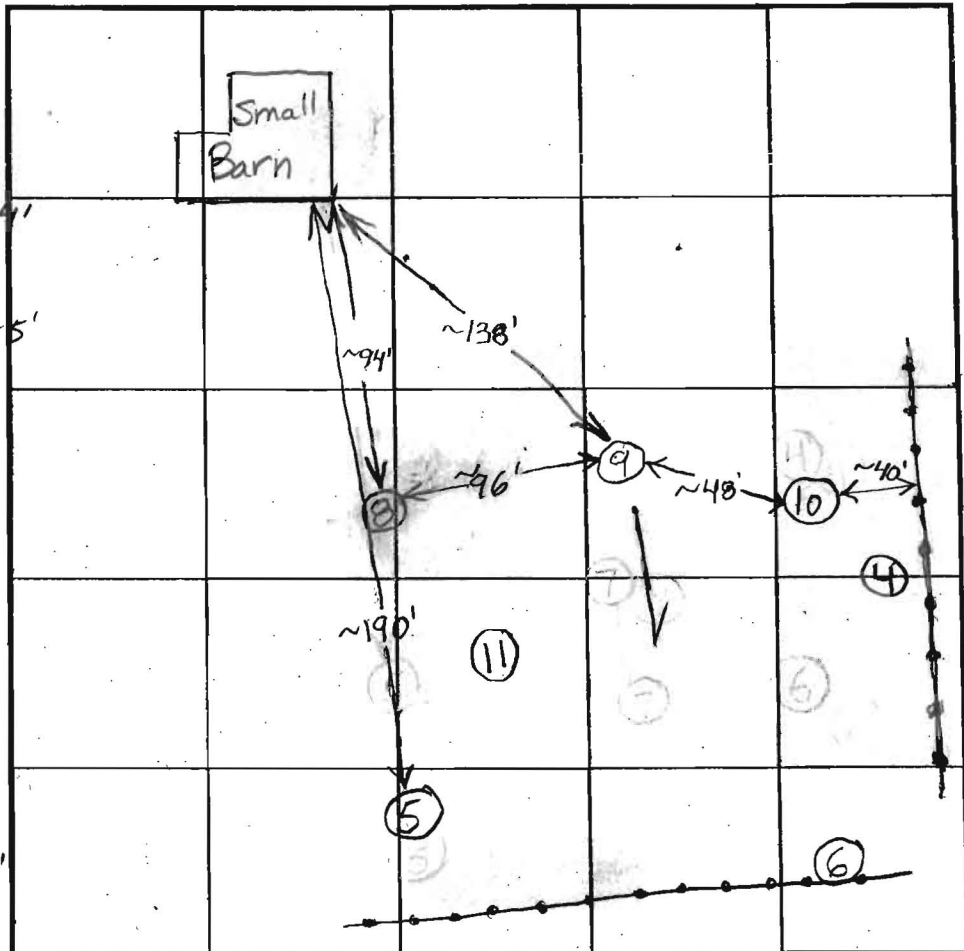
3.5'-4'

Or Br Loam Very Granular ~30% Large Quartz Fragments

7.5'

Or Br Sa Loam ~30% Rock

13.5'



SOIL PROFILE

⑩

Dense Red Br Loam ~20% Rock

5'-5.5'

Dense Or Br Loam ~20% Rock

7.5'-8.5'

Or Br Sa Loam ~40% Rock

12'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/5/03	5	4'/11.5' V	1:02:30	1:16:45	1:16:45	1:35:45	19	O.K.
		9'	1:06	1:07:30	1:07:30	1:10:30	3	
	8	4'4"/11' V	1:58:45	2:00:20	2:00:20	2:03:40	3 1/2	Marg.
		12"x12" 8'	2:47:20	2:48:15	2:48:15	2:49:40	~1 1/2	
		12"x12" Repour	2:52:05	2:53:40	2:53:40	2:55:55	2 1/4	
	9	3'6"/13.5' V	2:36:30	2:42:25	2:42:25	2:51:30	9	
		7.5'	2:32:30	2:43:20	2:43:20	3:01:30	18	Marg.
		3'7"	3:14:45	3:34	3:34	4:13	SLOW	
	10	4'/12' V	3:37:45	~1/4" in 15 minutes			SLOW	Ⓣ
		8'	3:33:30	~1/4" in 20 minutes			SLOW	

REMARKS Hole 5 Dug 20'-25' Uphill of Stake

TYPE OF SOIL Shallow System Only - Marginal Amounts of Rock

TESTED BY B. Baker ALSO PRESENT Fogles

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH 3

INLET DEPTH 2.5 MAXIMUM BOTTOM DEPTH 4.5 SQ. FT/BEDROOM 210



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P 518645

AGENCY REVIEW: _____ DATE _____

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 _____ 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) Gasch

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

APPLICANT _____

DAYTIME PHONE _____ CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS 3120 Cabin Run Woodbine 21797
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 13 GRID _____ PARCEL(S) _____ PROPOSED LOT SIZE _____

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. _____
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

AVP

(22)

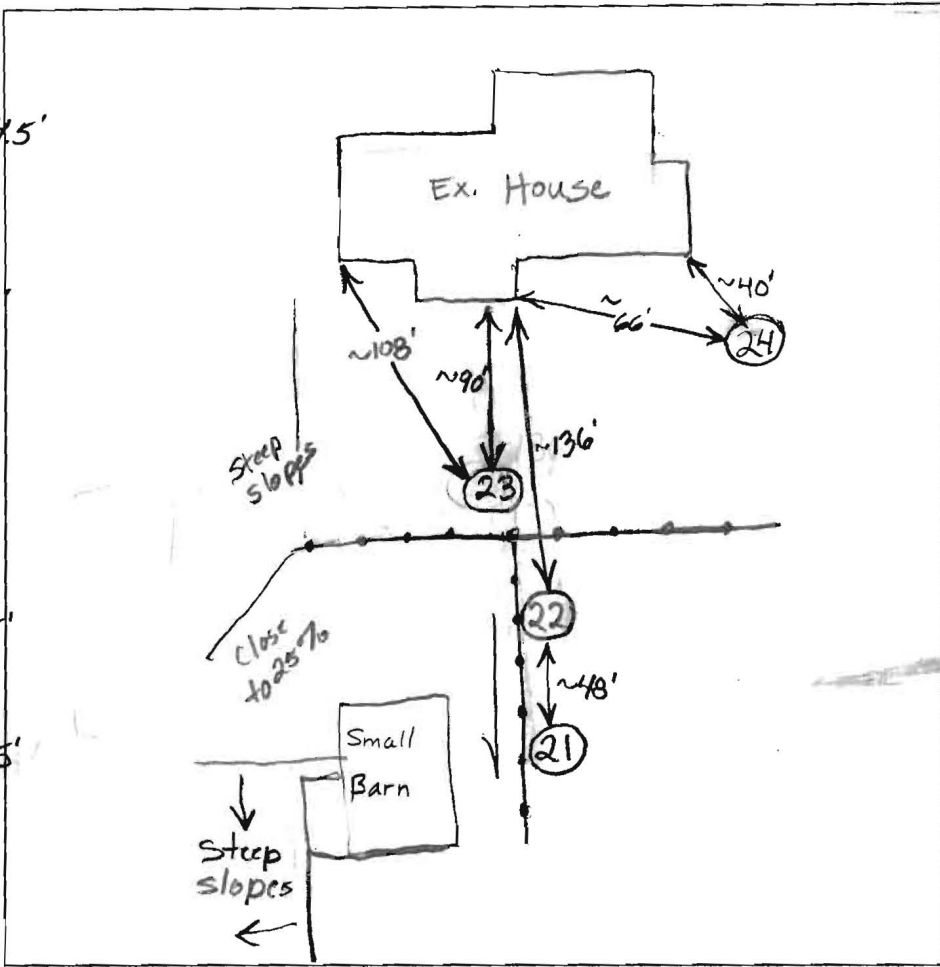
Or Br Loam 3.5-4.5'
 Or Br Si Loam
 ~20% Shale 5-6'
 Or Br Sa Loam ~40% Shale
 10.5'

(21)

Or Br Loam 3-3.5'
 Or Br Si Loam 4.5'
 Or Br Sa Loam to Bottom 20-30% Shale 6'
 ~50% Shale
 10.5'

(24)

Or Br Loam 3-3.5'
 Or Br Sa Loam
 Large Vein of ~60% Rock From 4'-9.5'
 Otherwise ~35% Rock
 11'



(25)
 Or Br Loam 3'
 Large Vein of 60-70% Shale From 4.5-9' otherwise 11.5'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
10/17/03	22	4'/10.5'	9:47:30	10:04	10:04	10:25	21
		7'	9:45:20	9:48:30	9:48:30	9:53:30	5
	21	4'/10.5'	10:25:30	10:33	10:33	10:44:30	11 1/2
		7'	10:32:30	10:33:10	10:33:10	10:34:30	~1/2
	Repair	7'	10:39:10	10:40:15	10:40:15	10:42:25	>2
	24	3' 9" / 11.5'	11:03	11:04:15	11:04:15	11:06:25	>2
	24	7'	11:01	11:06	11:06	11:14:30	8 1/2
	12" x 12" In Vein	7'	11:53:10	11:54:10	11:54:10	11:55:35	~1/2
	Repair	7'	11:56:20	11:58:05	11:58:05	12:00:45	~2 1/2
	23	6' 8" / 11.5'	12:08:30	12:10:45	12:10:45	12:14:40	~4

REMARKS Shallow System Only
 SANITARIAN B. Baker BACKHOE Fogles OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR 210
 TRENCH WIDTH 3 INLET DEPTH 2.5 MAX. BOT DEPTH 4.5 EFFECTIVE SW None



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P 518645

AGENCY REVIEW: _____ DATE _____

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 _____ 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) Douglas and Linda Gasch

DAYTIME PHONE (301) 362-0700 CELL _____ FAX _____

MAILING ADDRESS 3120 Cabin Run Woodbine MD 21797
STREET CITY/TOWN STATE ZIP

APPLICANT Mildenberg, Boender + Assoc.

DAYTIME PHONE (410) 997-0296 CELL _____ FAX _____

MAILING ADDRESS _____
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME _____ LOT NO. _____

PROPERTY ADDRESS _____
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 13 GRID _____ PARCEL(S) 247, 5+6 PROPOSED LOT SIZE _____

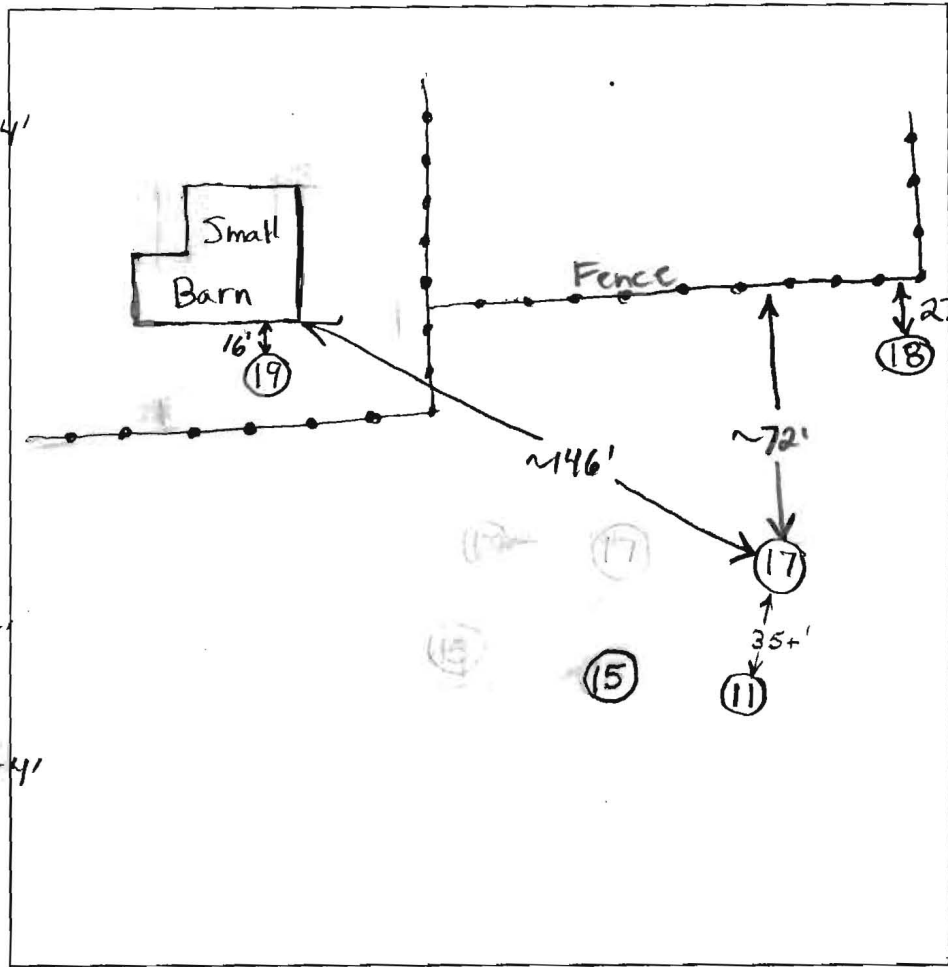
AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A.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

TEST RESULTS WILL BE MAILED TO APPLICANT.

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 (11)
 Or Br Loam 3.5'-4'
 Or Br Sa Loam ~25% Rock
 Large Vein of ~80% Rock That is Parallel to the Slope 6.5'
 12.5'



(17)
 Or Br Loam 3'
 Dense Or Br Sa Loam 4.5'
 Or Br Sa Loam 35-40% Quartzite and Weathered Rock 11'

(17)
 Or Br Loam 3.5'-4'
 Or Br Loam and Sa Loam
 Getting Sandier with Depth
 ~30% Rock and Saprolite 11'

(18)
 Or Br Loam 3'
 Or Br Sa Loam ~25% Rock 11.5'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H	
8/5/03	11	7' 1/2' V	5 gallons in < than 10 seconds (F)					
8/6/03	17	4' 1/11' V	1:38:30	1:45:30	11:45:30	1:57:45	12 1/2 O.K.	
		7'	1:39	1:43	1:43	1:49:30	6 1/2	
	18	4' 1/11.5' V	2:04	2:07:30	2:07:30	2:12	4 1/2 O.K.	
		8'	2:05:30	2:06:05	2:06:05	2:07:45	~2	
	19	4' 1/11' V	2:30:45	2:38	2:38	2:50	12 O.K.	
		8'	2:29:30	2:31:15	2:31:15	2:34	~3	

REMARKS Shallow System Only - Rocky Areas
 SANITARIAN B. Baker BACKHOE Fogles OTHERS _____
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR 210
 TRENCH WIDTH 3 INLET DEPTH 2.5 MAX. BOT DEPTH 4.5 EFFECTIVE SW None

APPLICATION

PERCOLATION TESTING

A 518645

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 4/30/2003

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER DOUGLAS & LINDA GASCH

ADDRESS 3120 CABIN RUN WOODBINE, MD 21797-7933 PHONE 301-362-0700

AGENT OR PROSPECTIVE BUYER MILDENBERG BRENDER & ASSOCIATES, INC.

ADDRESS 5072 DORSEY HALL DR. SUITE 202 ELLICOTT CITY, MD 21042 PHONE 410-997-0296

PROPERTY LOCATION:

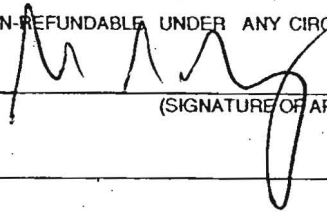
SUBDIVISION GASCH PROPERTY LOT NO. 3

ROAD AND DESCRIPTION SOUTHEAST END OF CABIN RUN ROAD, LOCATED OFF WOODBINE RD, APPROXIMATELY 1 MILE SOUTH OF FLORENCE RD.

TAX MAP 13 PARCEL # P.247, P.5 & P/O P&C

SIZE OF LOT 4.58 AC ± TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.


(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

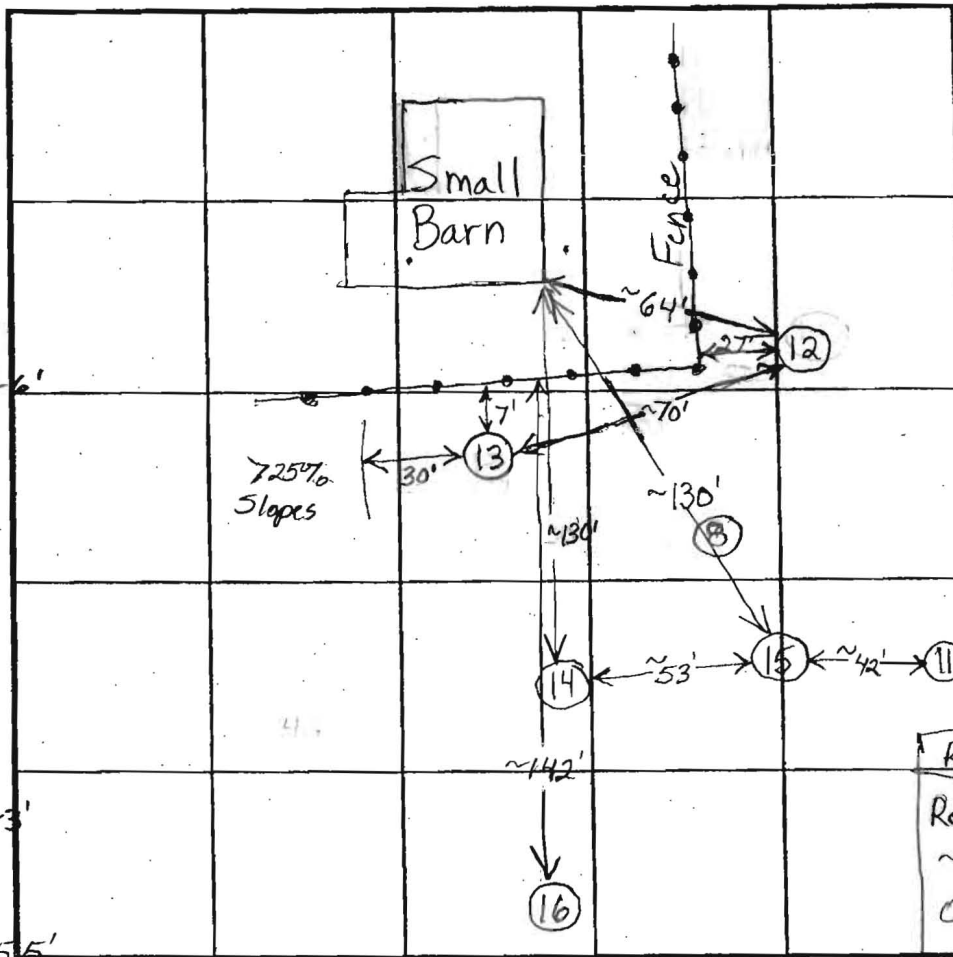
COUNTY #

SOIL PROFILE

0' (12)
 Or Br Loam 3'
 Or Br Loam and Sa Loam Mixture 25-30% Rock 5.5'
 Or Br Sa Loam ~45% Weathered Rock 12'

(13)
 Or Br Loam 2.5'-3'
 Or Br Si Loam 25-30% Rock 5'-5.5'
 Or Br Sa Loam ~50% Weathered Rock 11.5'

(14)
 Or Br Loam 3'-4'
 Or Br Sa Loam ~25% Rock and Saprolite 12.5'



SOIL PROFILE

0' (15)
 Or Br Loam 4'
 Or Br Loam and Sa Loam Getting Sandier With Depth 30-35% Rock and Saprolite 12'

(16)
 Red Br Loam 3'
 Red Br Sa Loam ~40% Rock One Large Vein of 750% Rock Below 7'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
8/6/03	12	4.5'/12V	10:27:30	10:32:45	10:32:45	10:42:45	10	O.K.
		7.5'	10:28:30	10:29:45	10:29:45	10:32:15	2 1/2	
	13	4'/11.5V	10:48:45	11:00	11:00	11:15	15	O.K.
		8'	10:49	10:50:20	10:50:20	10:53	2 1/2	
	14	4.5'/12.5V	11:06:30	11:08:45	11:08:45	11:13	4 1/2	O.K.
		8'	11:08:30	11:10:55	11:10:55	11:14:30	3 1/2	
	15	4'/12V	11:32:30	First Inch ~40 minutes		slow		Marg.
		5'	12:23	12:25:15	12:25:15	12:28	~3	
	16	4'/11.5V	11:54:30	11:55:30	11:55:30	11:56:50	1 min 20 sec	(F)
		7'	11:55			11:56	1 min Total	

REMARKS: Shallow System Only Due to Marginal and Varying Amounts of Rock In Area
 TESTED BY: B. Baker ALSO PRESENT: Fogles
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH 3
 INLET DEPTH 2.5 MAXIMUM BOTTOM DEPTH 4.5 SQ. FT./BEDROOM 210

APPLICATION

PERCOLATION TESTING

A 518645

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE 4/30/2003

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER DOUGLAS & LINDA GASCH

ADDRESS 3120 CABIN RUN WOODBINE, MD 21797-1933 PHONE 301-362-0700

AGENT OR PROSPECTIVE BUYER MILDENBERG BENDER & ASSOCIATES, INC.

ADDRESS 5072 DORSEY HALL DR. SUITE 202 ELLICOTT CITY, MD 21042 PHONE 410-997-0296

PROPERTY LOCATION:

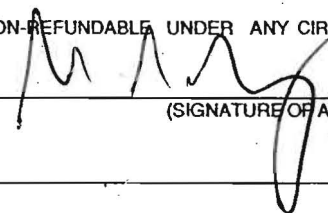
SUBDIVISION GASCH PROPERTY LOT NO. 1

ROAD AND DESCRIPTION SOUTHEAST END OF CABIN RUN ROAD, LOCATED OFF WOODBINE RD, APPROXIMATELY 1 MILE SOUTH OF FLORENCE RD.

TAX MAP 13 PARCEL # P.247, P.5 & P/O P.6

SIZE OF LOT 3.00 AC ± TYPE BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE. I FULLY UNDERSTAND THE FEE CONNECTED WITH THE FILING OF THIS PERC TEST APPLICATION IS NON-REFUNDABLE UNDER ANY CIRCUMSTANCES. I ALSO AGREE TO COMPLY WITH ALL M.O.S.H.A. REQUIREMENTS IN TESTING THIS LOT.


(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0'

Red Br
Loam
Getting
Sandier
With Depth
~50%
Rock Avg.
Throughout
Hole

2

Red Br
Loam Turning
To a Sa Loam
at shallow Depth
30-40%
Rock

4'

Vein of
75% Rock,
Rock is
Worst on
Downhill Side
of Hole

12'

20

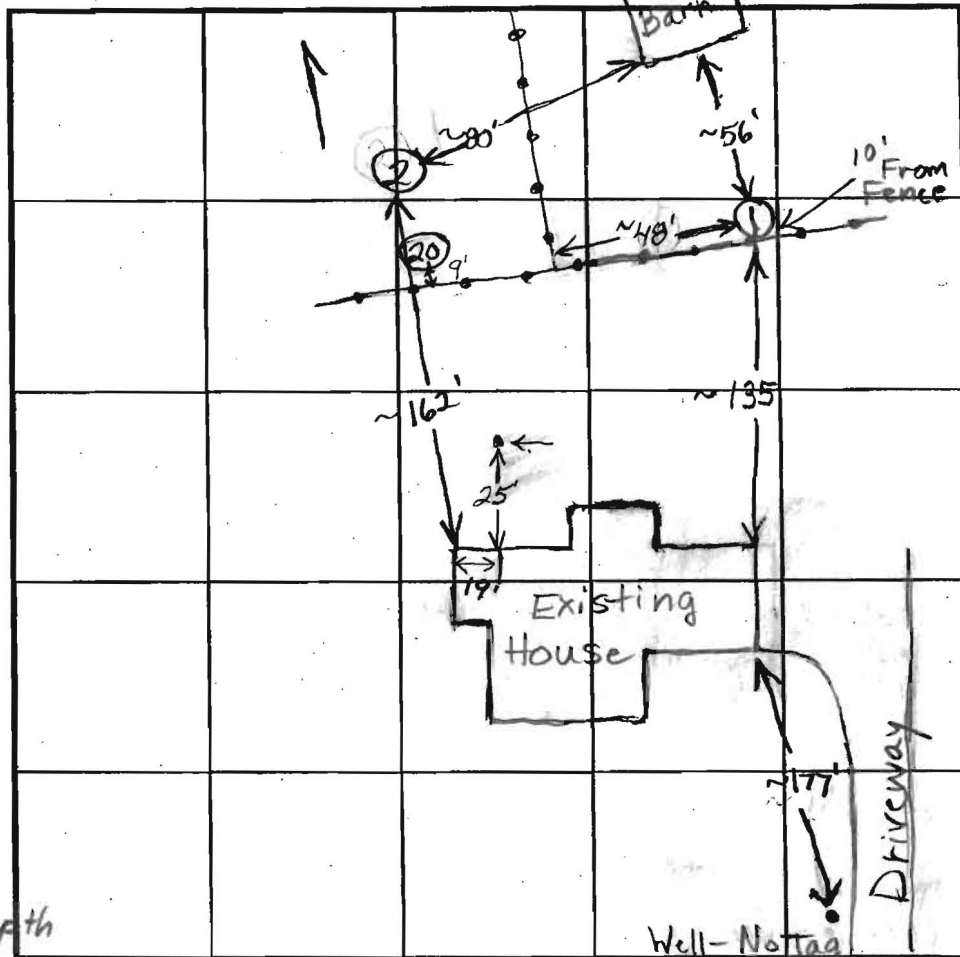
Red Br
Loam
Red Br
Sa Loam
35-40%
Rock

3.5'

6.5'

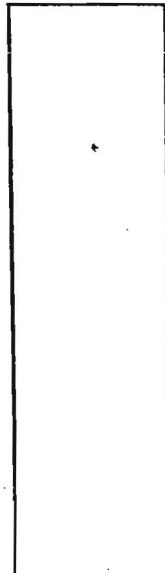
Large Vein
of 75%
Rock-Rock
is Worst
Uphill

11'



SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Cabin Run

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/5/03	1	4'	2:49	2:56	2:56	3:07	11
	Repair	8.5'	2:58	2:58:55	2:58:55	3:01	~2
	→ Tested In Rocky Area						
	2	4'/12"	3:14:30	3:16:15	3:16:15	3:19	~3
		8'3"	- Cannot Get Rate Greater Than				
			2 minutes - Poured 4 Times				
	20	3.5/11"	Rate O.K.				(E)
	20	8'	Not Tested in Rock Vein -				< 1 Minute

Marg.

(E)

(E)

REMARKS Hole 1 Not Dug at Stake, Holes 2 and 20 Failed
 TYPE OF SOIL Percolation Times are too Quick in Treatment Zone
 TESTED BY B. Baker ALSO PRESENT and Excessive Rock
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH 3
 INLET DEPTH 2.5 MAXIMUM BOTTOM DEPTH 4.5 SQ. FT./BEDROOM 210



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

February 18, 2002

Fisher, Collins & Carter, Inc.
C/o Joey Ecker
10272 Baltimore National Pike
Ellicott City, Maryland 21042

RE: Grading Plan 01-188
Gaither Hunt Lots 76 & 77
Dorsch Farm Road

Dear Ms. Ecker:

I've reviewed the recently revised plan for the above-mentioned lots. The portion regarding lot 76 is accepted as shown. Unfortunately the portion regarding lot 77 is not approvable as submitted.

The revised section, which showed three sand mound footprints all within the previously approved Sewage Disposal Area, was acceptable. The sand mound footprints were all sized for a 4-bdrm house. However, there are a number of changes needed before this becomes a workable plan. These items needing changes are listed below:

- The elevations for septic tank and pump chamber are incorrect. Those given are 10-ft. above shown grade at the referenced site.
- Delete the reference to a distribution box. Sand mound systems don't use them.
- During all phases of grading and construction, fencing shall be erected around the SDA and SM sites. This fencing must extend a minimum of 10-ft. beyond the upslope side, 15-ft beyond the side slope and 20-ft beyond the down slope of each SM footprint wherever the SDA line shows a lesser distance (except where limited by a property line).
- The LOD line is too close to the SDA and SM footprints. LOD silt fencing may not be set any closer to the sand mound footprints than as mentioned in fencing of SM's and SDA above.
- The house is shown too close to the SDA and SM footprints. A minimum 20-ft separation distance is expected here.
- Grading and cutting activities (such as manmade swales or drainage pathways, which require a 25-ft. minimum separation) shall be properly spaced from the initial and two replacement sand mound footprints.
- Septic tank and pump chamber placement must also be at least 20-ft. from any sand mound footprint, unless it can be demonstrated such placement will not adversely affect the proper functioning and maintenance of the sand mound system.
- The proposed house footprint severely constrains access-ways around the house to the South (10-ft. to property line and wooded) and East (25-ft to property line and over a proposed cut and fill terrace) as well as between the SDA, septic tank/pump chamber and Northwest house corner. Such site restrictions severely limit the movement of construction equipment and material between sand, gravel and soil stockpiles sites (if any) and any available side or upslope SM construction staging areas.
- The two replacement sand mounds are close to adjacent property lines, limiting access for their respective construction operations. I suggest adding a statement near the property lines in common with lots 79 (misidentified as lot 77 on this plan) and 78. This statement should declare

Bureau of Environmental Health

3525-H Ellicott Mills Drive • Ellicott City, Maryland 21043-4544

Water and Sewerage, Permits (410) 313-1771 Community Environmental Health Program (410) 313-1773
(410) 313-2640 TDD(410) 313-2323 TOLL FREE - 1-877-4MD-DHMH

8/1/02
2/18/02
Revised OK
OK
Company OK
OK
SHU & Problem
OK
Shown @ 15' upslope + side
Put Tank 5' from house
size 750 Small

the 10-ft wide strips on both sides of these property lines (and usually retained as utility easements), as a 20-ft. wide access way for future SM construction needs.

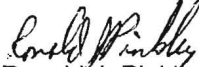
Given the above site limitations, I suggest installation of the primary Sand Mound first, followed by installation of the septic tank and pump chamber. Once the protective fencing is replaced, protecting the SDA, the house construction and careful grading may then proceed.

Proposals for minor waivers of these spacing restrictions may be entertained on a case-by-case basis. Any such proposal must be accompanied by a detailed sequence of construction outline, clearly demonstrating how protection of the sand mound areas are to be maintained. A revised grading or building permit plan highlighting material stockpile areas and traffic pathways for sand mound construction equipment should also be included.

Please note: driving with wheeled or heavy tracked vehicles over approved sand mound areas, or within 25-ft. down slope of a sand mound may result in unnecessary soil compaction, rendering the area unsuitable for any sewage disposal use in the foreseeable future. Failure to adequately safeguard these three sand mound areas during all phases of construction could result in delay or cancellation of the septic permit and suspension of construction until such time, if any, that an alternative sewage disposal solution is provided.

If you have any questions, please call me at 410-313-2640.

Very truly yours,



Ronald J. Pinkley, R.S.

Water and Sewerage Program

cc: John Lewis (Ryan Homes)

File

FRANK SKINNER

Ken Miller

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
 1414 Washington Road
 WESTMINSTER, MARYLAND 21157
 (410) 876-7740
 FAX (410) 840-9924

JOB GAITHER HUNT LOT 77

SHEET NO. _____ OF _____

CALCULATED BY _____ DATE 2/28/02

CHECKED BY SANDMOUND DATE _____

SCALE REDESIGN-RELOCATE

4 BED ROOMS x 150 = 600 GPD 10% SLOPE
 $600 / 1.2 = 500 \text{ Sq. Ft.}$
 BED = $9' \times 56' = 504 \text{ Sq. Ft.}$

UP SIDE SAND = 24"
 DOWN SIDE SAND = $24" + (0.1 \times 108") = 24" + 10.8 = 34.8"$

UP SLOPE SETBACK $(24" + 22") (3) (0.77) = 106" = 8'-10"$
 DOWN SLOPE SETBACK $(34.8" + 22") (3) (1.44) = 245" = 20'-5"$
 SIDE SLOPE SETBACK $\frac{(24" + 34.8")}{2} + 28 (3) = 172" = 14'-4"$

MOUND WIDTH = $9' + 8'-10" + 20'-5" = 38'-3"$
 MOUND LENGTH = $56' + 14'-4" + 14'-4" = 84'-8"$

DOSE = $600 \text{ GPD} / 6 = 100 \text{ GAL.}$
 $100 \text{ GAL} / 7.48 \text{ GAL} / \text{CU FT} = 13.37 \text{ CU FT}$
 $13.37 \text{ CU FT} / 37.6 \text{ SQ. FT} = 0.36' = 4.27" \text{ (USE } 4\frac{1}{2}" \text{)}$

PUMP RATE = $48 \text{ PERFORATIONS} \times 1.63 \text{ GPM} = 78 \text{ GPM}$

TDH - ELEV. DIFFERENCE = $473.66 - 461.66 = 12.0'$
 DISTAL HEAD $2.0'$

f @ 78 GPM
 2" LINE (IN PUMP CHAMBER)
 $G' + \text{VALVE} + L + \text{UNION} + L + L$
 $G = 1.3 \quad 7 - \quad 2 \quad + \quad 7 \quad + \quad 7 = 30 \text{ EQ FT}$
 $f = 9' / 100' = 0.3 \times 9 \quad 2.7'$

3" LINE
 $55' + L + T = 55 + 10 + 15 = 80 \text{ EQ FT}$
 $f = 1.38' / 100' = 0.8 \times 1.38 = 1.1'$
 TDH = 17.8 (18')

PUMP - GOULDS MODEL 3885 WE 10 H OR EQUAL *OK*
 8/5/02



HOWARD COUNTY HEALTH DEPARTMENT AND/OR

JOHN LEWIS

Bureau of Environmental Health
3525-H Ellicott Mills Drive, Ellicott City, Maryland 21043-4544
(410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 Toll Free 1-877-4MD-DHMH

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

March 08, 2002

Memorandum

To: Ryan Homes
11460 Cronridge Road
Owings Mill, MD 21117
From: Ronald J. Pinkley, R.S. *RJP*
Water & Sewere Program

RE: BP# 00134679
11026 Dorsch Farm Rd.
Gaither Hunt lot 77

This office has recently received the above referenced building permit application. However, we are unable to approve the application at this time for the following reasons:

- The two closest Sand Mound Footprints were shown with 81-ft. and 77-ft. lengths respectively. According to the design plans by Jim Clise, these both should be 85-ft. long. Revise the plan accordingly.
- The septic tank and pump chamber are both shown only 2-ft. by 7-ft in size. 5-ft. by 13-ft. (more or less) would be appropriate for the required two-chambered, top-seamed septic tank, while a 1250-gallon top-seamed pump chamber would be nearly as large. Please revise plan to show correctly dimensioned units.
- The Morning Room corner of the house is shown only 15 feet from the corner of nearest sand mound. If this sand mound were correctly sized, as discussed above, it would only be 8 feet from the house. Such a separation distance is unacceptable, as was discussed in my February 18, 2002 letter to Ms Joey Ecker.
- There is no longer a surface water pathway shown to drain storm water around the house and sand mounds. There is a need for such a drainage control device on this property.
- The last two items of my 2/18/02 letter were not addressed.

Given the above problems, it does appear this house footprint may be too big for the building site chosen. A suitable reconfiguration is suggested.

If you have any questions or concerns, please contact me at (410) 313-2640.

cc: NVR, Inc.
FCC
DIPL
File



HOWARD COUNTY HEALTH DEPARTMENT

Diane L. Matuszak, M.D., M.P.H., County Health Officer

February 18, 2002

Fisher, Collins & Carter, Inc.
C/o Joey Ecker
10272 Baltimore National Pike
Ellicott City, Maryland 21042

RE: Grading Plan 01-188
Gaither Hunt Lots 76 & 77
Dorsch Farm Road

Dear Ms. Ecker:

I've reviewed the recently revised plan for the above-mentioned lots. The portion regarding lot 76 is accepted as shown. Unfortunately the portion regarding lot 77 is not approvable as submitted.

The revised section, which showed three sand mound footprints all within the previously approved Sewage Disposal Area, was acceptable. The sand mound footprints were all sized for a 4-bdrm house. However, there are a number of changes needed before this becomes a workable plan. These items needing changes are listed below:

- Done* • The elevations for septic tank and pump chamber are incorrect. Those given are 10-ft. above shown grade at the referenced site.
- Done* • Delete the reference to a distribution box. Sand mound systems don't use them.
- Note* • During all phases of grading and construction, fencing shall be erected around the SDA and SM sites. This fencing must extend a minimum of 10-ft. beyond the upslope side, 15-ft beyond the side slope and 20-ft beyond the down slope of each SM footprint wherever the SDA line shows a lesser distance (except where limited by a property line).
- The LOD line is too close to the SDA and SM footprints. LOD silt fencing may not be set any closer to the sand mound footprints than as mentioned in fencing of SM's and SDA above.
- Best case* → • The house is shown too close to the SDA and SM footprints. A minimum 20-ft separation distance is expected here. *16'*
- No grading* • Grading and cutting activities (such as manmade swales or drainage pathways, which require a 25-ft. minimum separation) shall be properly spaced from the initial and two replacement sand mound footprints.
- Not required* • Septic tank and pump chamber placement must also be at least 20-ft. from any sand mound footprint, unless it can be demonstrated such placement will not adversely affect the proper functioning and maintenance of the sand mound system.
- Yes we know so* • The proposed house footprint severely constrains access-ways around the house to the South (10-ft. to property line and wooded) and East (25-ft to property line and over a proposed cut and fill terrace) as well as between the SDA, septic tank/pump chamber and Northwest house corner. Such site restrictions severely limit the movement of construction equipment and material between sand, gravel and soil stockpiles sites (if any) and any available side or upslope SM construction staging areas.
- Not required* • The two replacement sand mounds are close to adjacent property lines, limiting access for their respective construction operations. I suggest adding a statement near the property lines in common with lots 79 (misidentified as lot 77 on this plan) and 78. This statement should declare

Bureau of Environmental Health

3525-H Ellicott Mills Drive • Ellicott City, Maryland 21043-4544

Water and Sewerage, Permits (410) 313-1771 Community Environmental Health Program (410) 313-1773
(410) 313-2640 TDD(410) 313-2323 TOLL FREE - 1-877-4MD-DHMH

the 10-ft wide strips on both sides of these property lines (and usually retained as utility easements), as a 20-ft. wide access way for future SM construction needs.

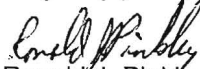
Given the above site limitations, I suggest installation of the primary Sand Mound first, followed by installation of the septic tank and pump chamber. Once the protective fencing is replaced, protecting the SDA, the house construction and careful grading may then proceed.

Proposals for minor waivers of these spacing restrictions may be entertained on a case-by-case basis. Any such proposal must be accompanied by a detailed sequence of construction outline, clearly demonstrating how protection of the sand mound areas are to be maintained. A revised grading or building permit plan highlighting material stockpile areas and traffic pathways for sand mound construction equipment should also be included.

Please note: driving with wheeled or heavy tracked vehicles over approved sand mound areas, or within 25-ft. down slope of a sand mound may result in unnecessary soil compaction, rendering the area unsuitable for any sewage disposal use in the foreseeable future. Failure to adequately safeguard these three sand mound areas during all phases of construction could result in delay or cancellation of the septic permit and suspension of construction until such time, if any, that an alternative sewage disposal solution is provided.

If you have any questions, please call me at 410-313-2640.

Very truly yours,



Ronald J. Pinkley, R.S.

Water and Sewerage Program

cc: John Lewis (Ryan Homes)

File

FRANK SKINNER

Ken Miller

MINIMUM LOT SIZE CHART			
LOT NO.	GROSS AREA	PIPESTEM AREA	MINIMUM LOT SIZE
2	401,686 SQ. FT.	9,759 SQ. FT.	391,927 SQ. FT.

COORDINATE LIST			
NO.	NORTH	EAST	
1	593417.5562	1279591.7211	
2	593344.8994	1279774.7290	
3	592965.5190	1279976.6570	
4	592754.2110	1280225.3420	
5	592912.4010	1280714.1711	
6	592804.0600	1280933.1770	
7	592405.0334	1280942.4123	
8	592594.3838	1279888.9696	
9	592917.7380	1279633.5260	

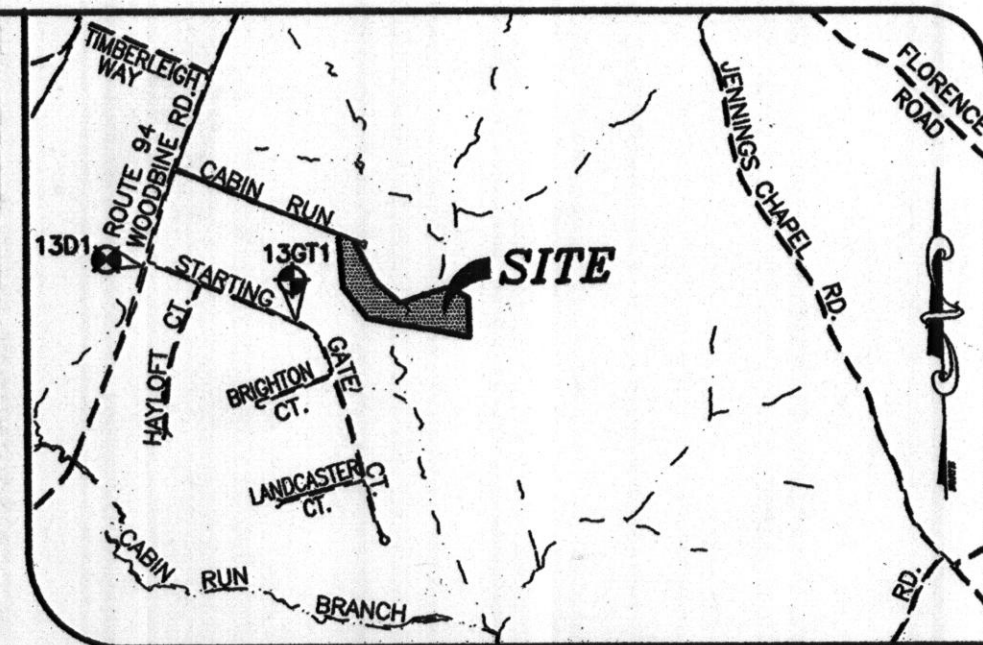
NOTE: COORDINATES AND GRID TICKS SHOWN HEREON ARE BASED ON NAD'83 AND ARE IN FEET.

WETLANDS LINE TABLE			FLOODPLAIN LINE TABLE		
LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
W1	40.58'	N38°57'06"E	F1	50.57'	N38°44'19"E
W2	33.91'	N30°43'15"E	F2	59.16'	N29°33'46"E
W3	30.16'	N33°04'09"E	F3	90.57'	N34°05'26"E
W4	42.02'	N61°32'13"E	F4	60.70'	N00°00'00"W
W5	25.87'	N41°36'33"E	F5	22.76'	N30°58'58"E
W6	94.22'	N59°56'03"E	F6	13.58'	N17°15'13"W
W7	27.65'	N85°06'16"E	F7	66.24'	N23°06'03"E
W8	31.37'	N71°14'37"W	F8	91.94'	N34°21'01"E
W9	44.78'	N29°53'41"E	F10	103.91'	N52°00'51"E
W10	40.33'	N19°59'49"E	F9	221.19'	N60°10'48"E
W11	48.81'	N33°58'45"E	F11	76.00'	N16°42'40"E
W12	61.95'	N46°06'09"E			
W13	63.91'	N49°44'29"E			
W14	54.06'	N48°09'36"E			
W15	66.97'	N39°00'44"E			
W16	75.11'	N29°41'07"E			
W17	48.53'	N19°09'51"E			
W18					

LEGEND

- WETLANDS
- PRIVATE 100 YEAR FLOODPLAIN AND UTILITY EASEMENT VARIABLE WIDTH
- 5' PRIVATE INGRESS EGRESS, SWM CREDIT AND UTILITY EASEMENT

21. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENTS REQUIRED BY MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENTS INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED EASEMENT SHALL NOT BE NECESSARY.
22. DEVELOPER RESERVES UNTO ITSELF, ITS SUCCESSORS AND ASSIGNS, ALL EASEMENTS SHOWN ON THIS PLAT FOR WATER, SEWER, STORM DRAINAGE, OTHER PUBLIC UTILITIES, AND FOREST CONSERVATION (DESIGNATED AS "FOREST CONSERVATION AREA"), LOCATED IN, OVER AND THROUGH LOTS 1 AND 2, OR PORTIONS THEREOF, AND SHOWN ON THIS PLAT AS THE FOREST CONSERVATION AREA. ANY AND ALL CONVEYANCES OF AFORESAID LOTS SHALL BE SUBJECT TO THE EASEMENTS HEREIN RESERVED, WHETHER OR NOT EXPRESSLY STATED IN THE DEED(S) CONVEYING SAID LOT(S). DEVELOPER SHALL EXECUTE AND DELIVER A DEED FOR THE EASEMENTS HEREIN RESERVED TO HOWARD COUNTY. UPON COMPLETION OF THE PUBLIC UTILITIES AND THEIR ACCEPTANCE BY HOWARD COUNTY, AND, IN CASE OF A FOREST CONSERVATION EASEMENT(S), UPON COMPLETION OF DEVELOPER'S OBLIGATION UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER AND THE COUNTY, AND THE RELEASE OF THE 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.
23. A WAIVER TO SECTION 16.120(b)(4)(iii)(b) TO ALLOW ENVIRONMENTAL FEATURES ON RESIDENTIAL LOTS LESS THAN 10 ACRES IN SIZE AND SECTION 16.120(b)(4)(i) TO ALLOW IRREGULAR SHAPED LOTS, NOT GENERALLY RECTANGULAR IN SHAPE WAS GRANTED ON JULY 8, 2004. SUBJECT TO THE FOLLOWING CONDITIONS:
 - A. RECORD A 2.6 ACRE FOREST CONSERVATION EASEMENT ON LOT 2 TO PROTECT THE EXISTING FOREST. DO NOT INCLUDE THE ACREAGE OF THE FOREST WITHIN THE FLOODPLAIN AS PART OF THE FOREST CONSERVATION EASEMENT AREA. ALTHOUGH NO SURETY IS REQUIRED FOR THE RETENTION EASEMENT, A DEED OF FOREST CONSERVATION EASEMENT IS REQUIRED.
 - B. THE REAR AND SIDE BUILDING RESTRICTION ENVELOPE ON LOT 2 MUST BE ESTABLISHED 35 FEET FROM THE MOST RESTRICTIVE ENVIRONMENTAL FEATURES OR BUFFERS WHICH ARE ON THAT LOT.
 - C. PER SECTION 16.115(b)(2) AND (C), GRANT A FLOODPLAIN EASEMENT TO HOWARD COUNTY FOR RIGHT OF ENTRY, COMPLY WITH THE PROHIBITIONS ON THE USE OF FLOODPLAIN LAND.
 - D. PER SECTION 16.116(a) AND (b), PROTECT THE WETLANDS, STREAMS AND THEIR BUFFERS FROM THE GRADING AND DISTURBANCE ON LOT 2.



VICINITY MAP

- GENERAL NOTES** SCALE: 1"=2000'
1. TAX MAP: 13, PARCEL: 247, PARCEL 5 BLOCK: 13.
 2. THIS PLAN IS SUBJECT TO COUNTY COUNCIL BILL 45-2003, THE AMENDED 5th EDITION SUBDIVISION REGULATIONS, EFFECTIVE OCTOBER 2, 2003, AND TO THE 2004 COMPREHENSIVE ZONING PLAN DATED FEBRUARY 2, 2004.
 3. SUBJECT PROPERTY ZONED RC-DEO RESIDENTIAL PER THE 2/2/04 COMPREHENSIVE ZONING PLAN.
 4. BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN & MONUMENTED SURVEY BY MILDENBERG, BOENDER & ASSOCIATES, INC. ON OR ABOUT SEPT. 2003.
 5. COORDINATES ARE BASED ON NAD'83, MARYLAND COORDINATE SYSTEM AS PROJECTED BY HOWARD COUNTY GEODETIC CONTROL STATIONS:

STA. No. 13GT1	N 592,553.593	ELEV. 551.082
	E 1,279,148.270	
STA. No. 13D1	N 593,130.886	ELEV. 590.759
	E 1,277,553.13	

6. DENOTES A CONCRETE MONUMENT FOUND.
7. DENOTES IRON PIPE OR REBAR FOUND.
8. DENOTES ANGULAR CHANGE IN BEARING OF BOUNDARY OR RIGHT-OF-WAY.
9. BRL DENOTES A BUILDING RESTRICTION LINE.
10. ALL AREAS ARE MORE OR LESS.
11. PRIVATE WELL AND SEPTIC WILL BE UTILIZED.
12. DRIVEWAY INTERSECTION SHALL CONFORM TO HOWARD COUNTY STANDARD DETAIL R6.06.
13. NO BURIAL GROUNDS, CEMETERIES OR HISTORIC STRUCTURES ARE LOCATED ON THE SITE.
14. WETLANDS SHOWN BASED ON FIELD INVESTIGATION PERFORMED BY ECO-SCIENCE PROFESSIONALS, INC. ON OR ABOUT MARCH 2004.
15. APPROXIMATE 100-YR FLOODPLAIN SHOWN BASED ON NON-CRITICAL FLOODPLAIN STUDY PERFORMED ON OR ABOUT MARCH 2004.
16. STORMWATER MANAGEMENT IS PROVIDED VIA SHEETFLOW TO BUFFER, NON-ROOFTOP DISCONNECTS IN ACCORDANCE WITH 2000 MARYLAND STORMWATER DESIGN MANUAL. TOTAL WQV CREDIT IS 2,000 CFT AND TOTAL REV CREDIT IS 3,300 SQFT (AREA METHOD).
17. THIS PROPOSED SUBDIVISION WILL CONSIST OF SINGLE FAMILY DETACHED DWELLINGS. THE WELL ON LOT 2 SHALL BE DRILLED PRIOR TO PLAT RECORDATION.
18. A PROTECTIVE TRAFFIC STOPPING DEVICE SHALL BE INSTALLED BETWEEN THE DRIVEWAY AND THE WELL ON LOT 2.
19. 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.
20. THERE IS AN EXISTING DWELLING STRUCTURE LOCATED ON LOT 1 THAT IS TO REMAIN. NO NEW BUILDINGS, EXTENSIONS OR ADDITIONS TO THE EXISTING DWELLING ARE TO BE CONSTRUCTED AT A DISTANCE LESS THAN THE ZONING REGULATIONS REQUIRE.
21. LANDSCAPING HAS BEEN PROVIDED IN ACCORDANCE WITH SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. SURETY FOR THE REQUIRED LANDSCAPING ON LOT 2 (8 SHADE TREES, 55 SHRUBS) IN THE AMOUNT OF \$4,050.00 WILL BE POSTED AS PART OF THE GRADING PERMIT. LOT 1 IS EXEMPT FROM THE LANDSCAPING REQUIREMENTS SINCE IT CONTAINS AN EXISTING HOUSE TO REMAIN. DUE TO EX. 30 FOOT TO 40 FOOT EVERGREEN SCREEN LOCATION ALONG THE COMMON PROPERTY LINE WITH PARCEL 248, PROPOSED TREES REQUIRED FOR PERIMETER 1 HAVE BEEN LOCATED ALONG THE PORTION OF PROPERTY LINE IN THE VICINITY OF THE PROPOSED HOUSE.
22. FOREST CONSERVATION OBLIGATIONS IN ACCORDANCE WITH SECTION 16.1200 OF THE HOWARD COUNTY CODE AND FOREST CONSERVATION MANUAL FOR THIS SUBDIVISION HAS BEEN FULFILLED BY RETENTION OF 2.60 ACRES (113,256 SQ. FT.) OF EXISTING FOREST ON LOT 2 WITHIN A FOREST CONSERVATION EASEMENT AS REQUIRED BY APPROVAL OF WP-04-132. A DEED OF FOREST CONSERVATION EASEMENT IS REQUIRED, BUT SURETY AND FOREST CONSERVATION EASEMENT AGREEMENT ARE NOT REQUIRED.
23. DRIVEWAYS SHALL BE PROVIDED PRIOR TO RESIDENTIAL OCCUPANCY TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES PER THE FOLLOWING MINIMUM REQUIREMENTS:
 - A) WIDTH - 12 FEET (14 FEET SERVING MORE THAN ONE RESIDENT)
 - B) SURFACE - 6 INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING.
 - C) GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND MINIMUM OF 45 FOOT TURNING RADIUS.
 - D) STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25 LOADING).
 - E) DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD PLAIN WITH NO MORE THAN 1 FOOT OF DEPTH OVER DRIVEWAY SURFACE.
 - F) STRUCTURE CLEARANCES - MINIMUM 12 INCHES
 - G) MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE.

THE REQUIREMENTS OF 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 COMPLETED.

Michael G. Putro 12/8/04
DATE

Douglas Gasch 12-8-04
DATE

M. Linda Gasch 12-8-04
DATE

AREA TABULATION

NUMBER OF BUILDABLE LOTS	2
NUMBER OF OPEN SPACE LOTS	0
NUMBER OF LOTS OR PARCELS	2
AREA OF BUILDABLE LOTS	12.22 ±
AREA OF OPEN SPACE LOTS	0
PUBLIC ROAD RIGHT-OF-WAY	0
TOTAL AREA	12.22 ±

OWNER AND DEVELOPER
DOUGLAS & LINDA GASCH
3120 CABIN RUN ROAD
WOODBINE, MARYLAND 21797
301-854-6524

OWNER'S CERTIFICATE

WE, DOUGLAS GASCH & M. LINDA GASCH, 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 EASEMENTS 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 WATERWAY 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 EASEMENT AND RIGHTS-OF-WAY.

WITNESS MY HAND THIS 8th DAY OF December, 2004

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE FINAL PLAT SHOWN HEREON IS CORRECT; THAT IT IS A SUBDIVISION OF LAND CONVEYED BY MICHAEL G. PUTRO & CHERYL L. PUTRO TO DOUGLAS GASCH & M. LINDA GASCH BY DEED DATED JANUARY 9, 1985, AND RECORDED AMONG THE LAND RECORDS FOR HOWARD COUNTY IN LIBER 1336 AT FOLIO 098 AND BY DEED DATED JULY 12, 1985, AND RECORDED AMONG THE LAND RECORDS FOR HOWARD COUNTY IN LIBER 1368 AT FOLIO 316 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, AND THE BOUNDARY SURVEY IS IN ACCORDANCE WITH THE HOWARD COUNTY SUBDIVISION REGULATIONS.

RECORDED AS PLAT 17198 ON 12/10/05 AMONG THE LAND RECORDS OF HOWARD COUNTY, MD.

GASCH PROPERTY
LOTS 1 AND 2

SHEET 1 OF 1

TAX MAP 13, PARCEL 5 4th ELECTION DISTRICT SCALE: 1"=100'
BLOCK 13 HOWARD COUNTY, MARYLAND DATE: APR. 2004
EX. ZONING RC-DEO DPZ FILE NOS. N/A

William L. Lamm 1/4/05
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

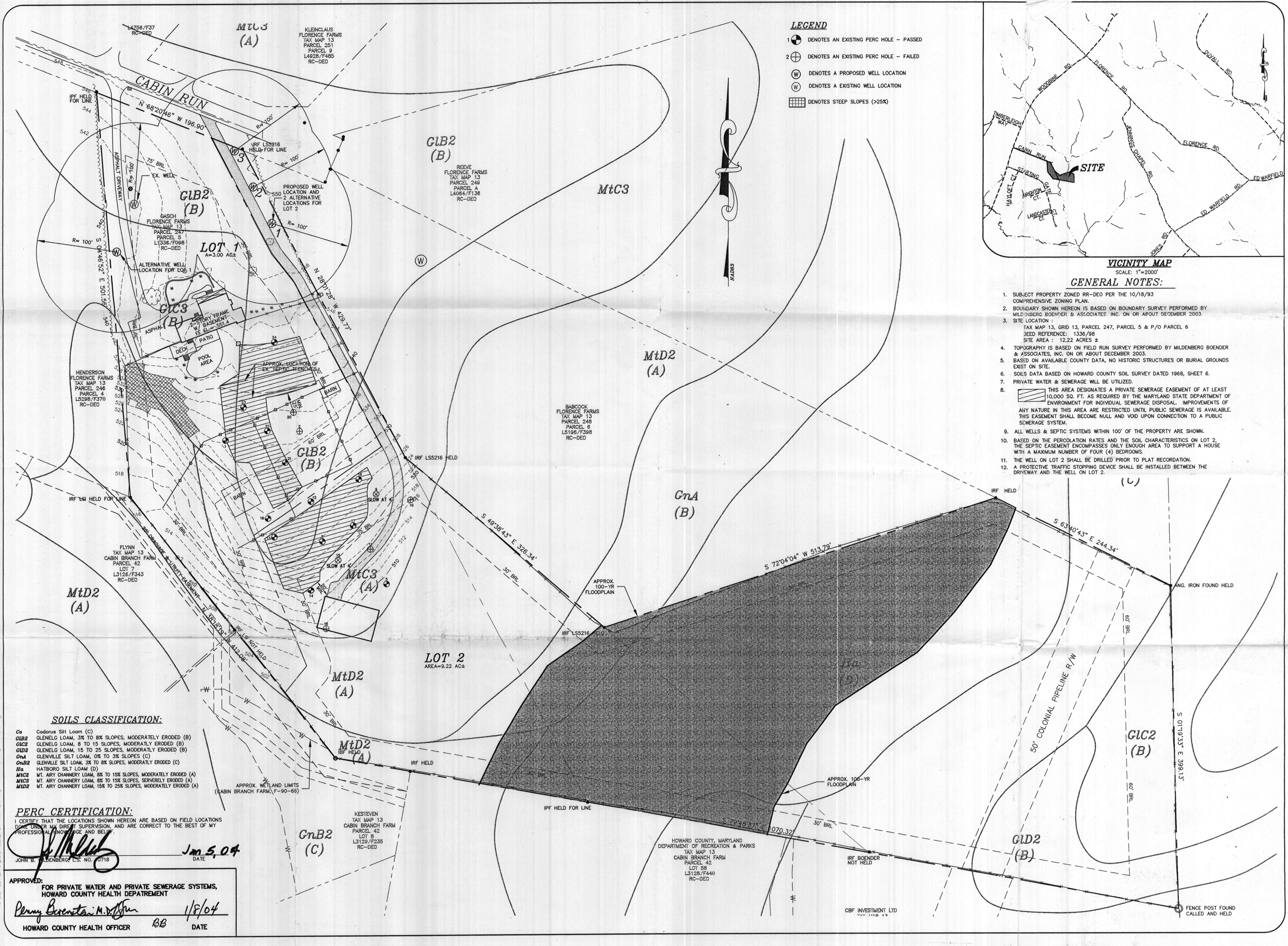
Frank A. Boyle 1/14/05
DIRECTOR DATE

Douglas Gasch 12-8-04 Same Name
DOUGLAS GASCH, OWNER WITNESS

M. Linda Gasch 12-8-04 Same Name
M. LINDA GASCH, OWNER WITNESS

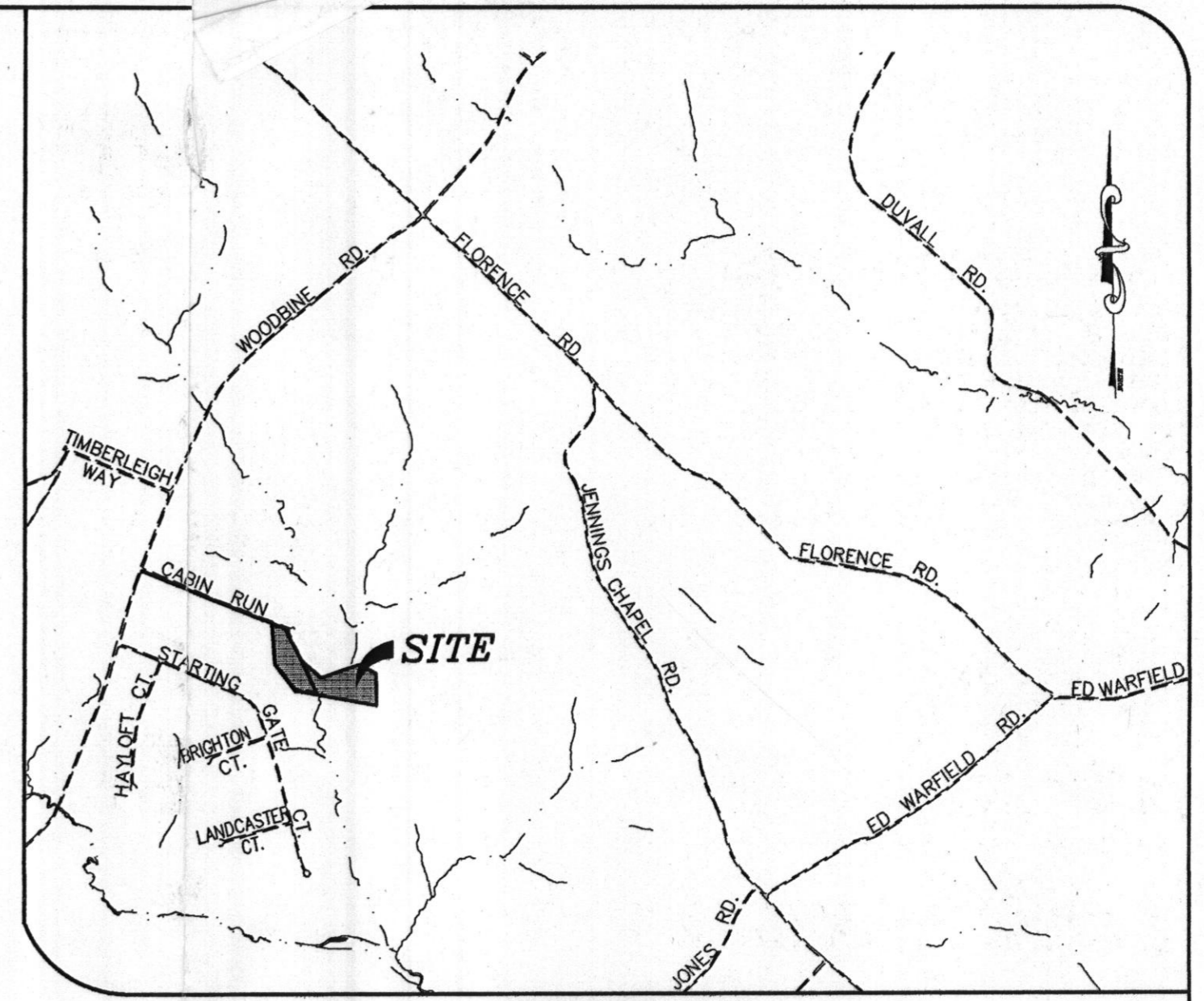
Michael G. Putro 12/8/04
STATE OF MARYLAND PROFESSIONAL SURVEYOR No. 10718 DATE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 997-0296 Balt. (301) 621-5521 Wash. (410) 997-0298 Fax.



LEGEND

- ⊕ DENOTES AN EXISTING PERC HOLE - PASSED
- ⊕ DENOTES AN EXISTING PERC HOLE - FAILED
- ⊙ DENOTES A PROPOSED WELL LOCATION
- ⊙ DENOTES AN EXISTING WELL LOCATION
- ▨ DENOTES STEEP SLOPES (>25%)



GENERAL NOTES:
SCALE: 1"=200'

1. SUBJECT PROPERTY ZONED RR-DEO PER THE 10/18/93 COMPREHENSIVE ZONING PLAN.
2. BOUNDARY SHOWN HEREON IS BASED ON BOUNDARY SURVEY PERFORMED BY MILDENBERG BOENDER & ASSOCIATES, INC. ON OR ABOUT DECEMBER 2003.
3. SITE LOCATION :
TAX MAP 13, GRID 13, PARCEL 247, PARCEL 5 & P/O PARCEL 6
DEED REFERENCE: 1336/98
SITE AREA : 12.22 ACRES ±
4. TOPOGRAPHY IS BASED ON FIELD RUN SURVEY PERFORMED BY MILDENBERG BOENDER & ASSOCIATES, INC. ON OR ABOUT DECEMBER 2003.
5. BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE.
6. SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 6.
7. PRIVATE WATER & SEWERAGE WILL BE UTILIZED.
8. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM.
9. ALL WELLS & SEPTIC SYSTEMS WITHIN 100' OF THE PROPERTY ARE SHOWN.
10. BASED ON THE PERCOLATION RATES AND THE SOIL CHARACTERISTICS ON LOT 2, THE SEPTIC EASEMENT ENCOMPASSES ONLY ENOUGH AREA TO SUPPORT A HOUSE WITH A MAXIMUM NUMBER OF FOUR (4) BEDROOMS.
11. THE WELL ON LOT 2 SHALL BE DRILLED PRIOR TO PLAT RECORDATION.
12. A PROTECTIVE TRAFFIC STOPPING DEVICE SHALL BE INSTALLED BETWEEN THE DRIVEWAY AND THE WELL ON LOT 2.

SOILS CLASSIFICATION:

- Co Codorus Silt Loam (C)
- GIB2 GLENELG LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (B)
- GIC2 GLENELG LOAM, 8 TO 15 SLOPES, MODERATELY ERODED (B)
- GID2 GLENELG LOAM, 15 TO 25 SLOPES, MODERATELY ERODED (B)
- GnA GLENVILLE SILT LOAM, 0% TO 3% SLOPES (C)
- GnB2 GLENVILLE SILT LOAM, 3% TO 8% SLOPES, MODERATELY ERODED (C)
- Ha HATBORO SILT LOAM (D)
- MtC2 MT. ARRY CHANNERY LOAM, 8% TO 15% SLOPES, MODERATELY ERODED (A)
- MtC3 MT. ARRY CHANNERY LOAM, 8% TO 15% SLOPES, SEVERELY ERODED (A)
- MtD2 MT. ARRY CHANNERY LOAM, 15% TO 25% SLOPES, MODERATELY ERODED (A)

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.

John B. Miltenberg
JOHN B. MILTENBERG, L.S. NO. 0718
DATE: **Jan 5, 04**

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

Penny Borenstein
PENNY BORENSTEIN, M.D.
HOWARD COUNTY HEALTH OFFICER
DATE: **1/8/04**

Project	03-031	date	JAN 04
Illustration	MAP	engineering	MAP
Scale	1"=50'	approval	RBH

description	revisions	date

GASCH PROPERTY
TAX MAP 13 - GRID 13 - PARCEL 247
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
PERC CERTIFICATION PLAT

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive Suite 202, Ellicott City, Maryland 21042
(410) 397-0296 Bld. (301) 621-5521 Wash. (410) 397-0298 Fax.

**PLOT PLAN
LOT 2
GASCH PROPERTY
PLAT No. 17198
3120 CABIN RUN
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' FEBRUARY 2005**

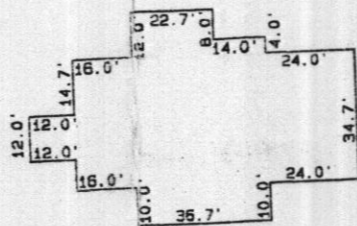
Ⓐ = Prop. 4 Bedroom House
F.F.E. = 519.5'
B'smt. Elev. = 509.5'
Inv. Elev. = 507.5'

Ⓒ = Prop. Dist. Box
Ex. Elev. = 522.0'
Inv. Elev. = 518.8'

Ⓑ = Prop. Septic Tank
Ex. Elev. = 509.0'
Inv. In = 506.7'
Inv. Out = 506.4'

Prop. Pump
Ex. Elev. = 509.5'
Inv. In = 506.1'
Inv. Out = 505.8'

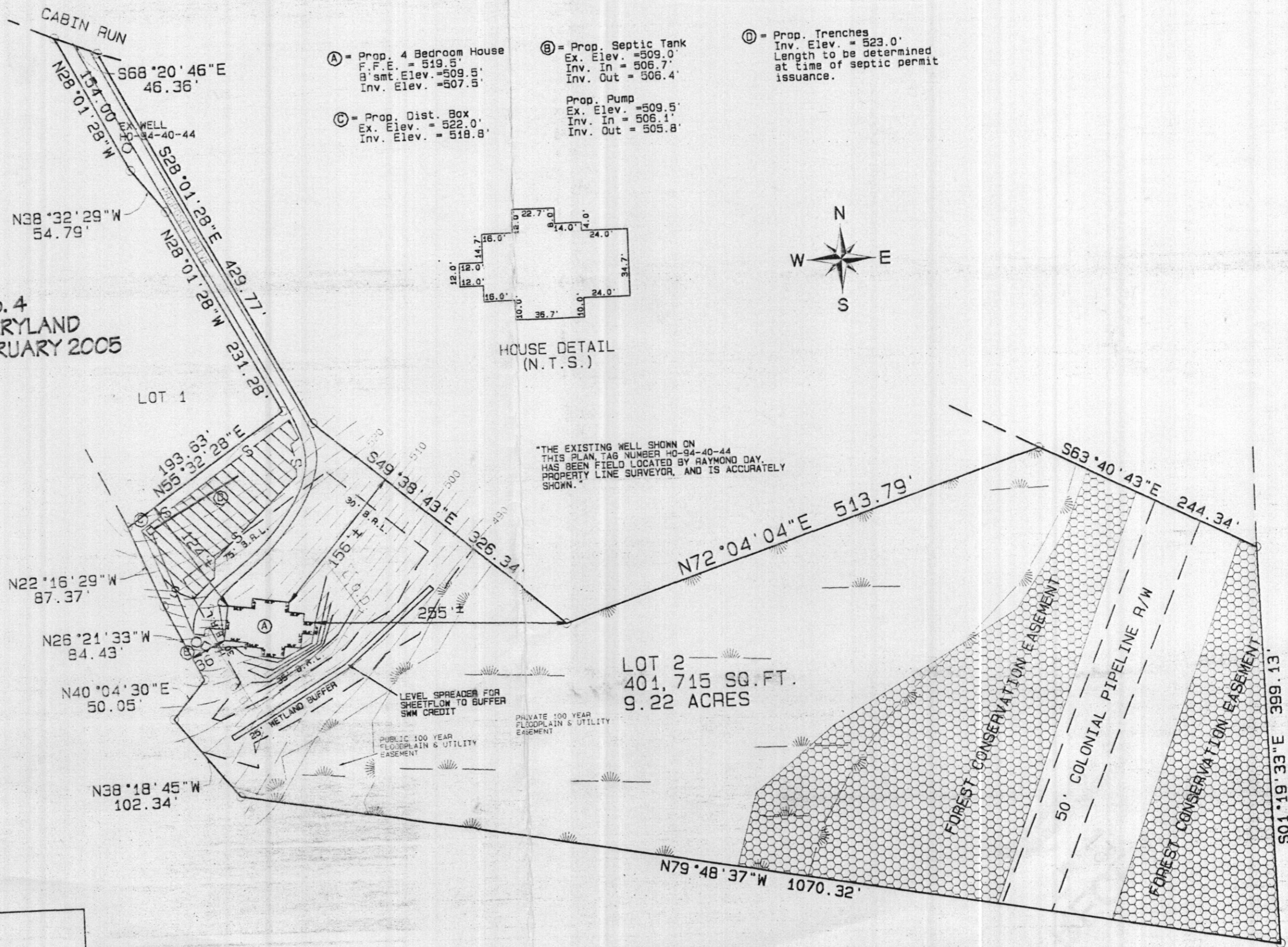
Ⓓ = Prop. Trenches
Inv. Elev. = 523.0'
Length to be determined
at time of septic permit
issuance.



HOUSE DETAIL
(N.T.S.)



"THE EXISTING WELL SHOWN ON THIS PLAN, TAG NUMBER HO-94-40-44 HAS BEEN FIELD LOCATED BY RAYMOND DAY, PROPERTY LINE SURVEYOR, AND IS ACCURATELY SHOWN."



RAYMOND DAY
LAND SURVEYING
137 PARADISE GARDENS ROAD
OAKLAND, MARYLAND, 21550
301-387-5939 301-616-7199

