

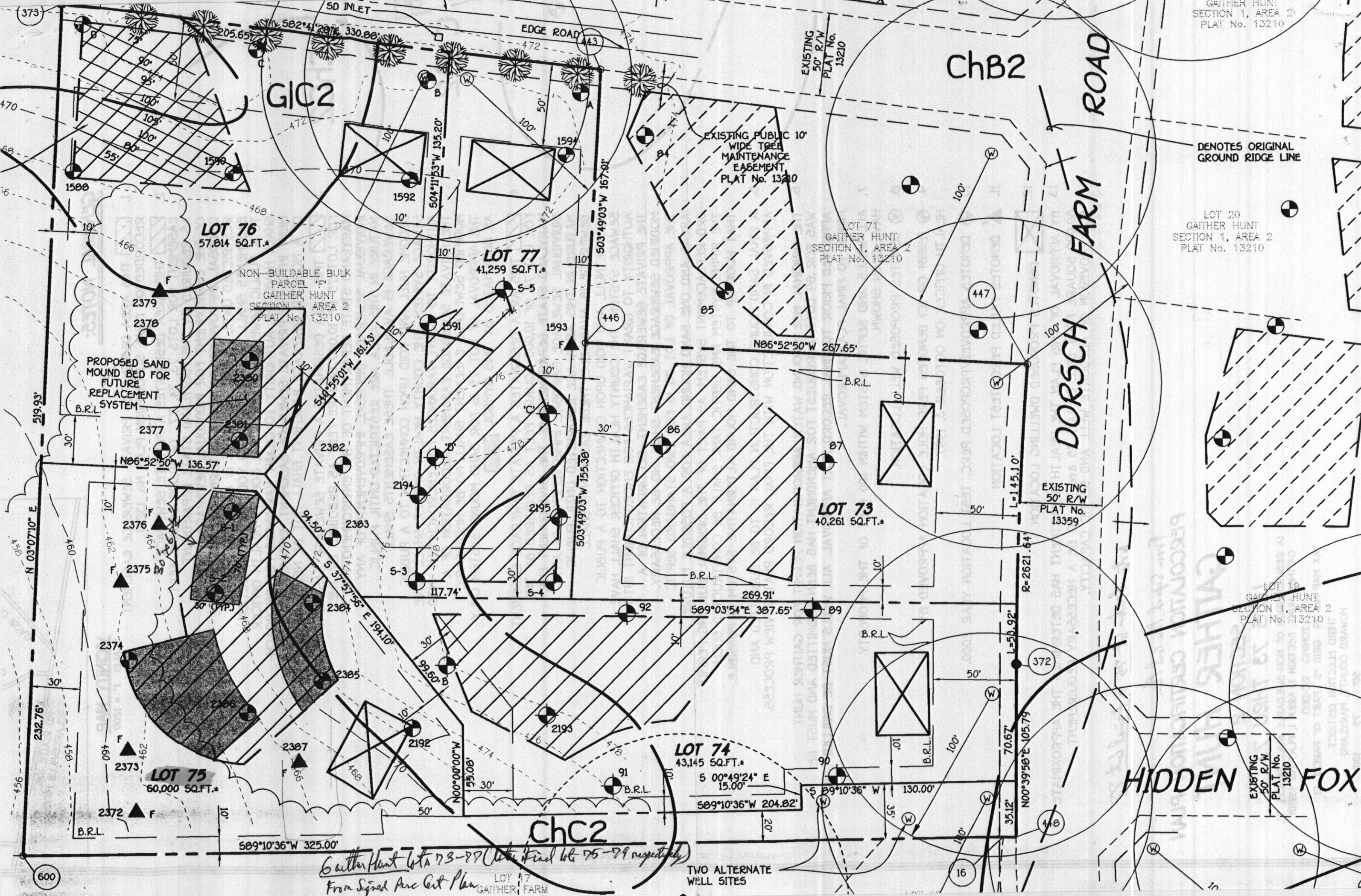
LOT 21
GATHER HUNT
SECTION 1, AREA 2
PLAT No. 13210

DENOTES ORIGINAL
GROUND RIDGE LINE

LOT 20
GATHER HUNT
SECTION 1, AREA 2
PLAT No. 13210

LOT 19
GATHER HUNT
SECTION 1, AREA 2
PLAT No. 13210

EXISTING
50' R/W
PLAT No.
13210



Gather Hunt lots 73-77 (aka final lots 75-79 respectively)
From Signed Arc Cut Plans

TWO ALTERNATE
WELL SITES

600











16

10

GENERAL NOTES:

VICINITY MAP
SCALE: 1" = 1200'

MD ROUTE 100
(CLARKSVILLE PIKE)

1.  THIS AREA DESIGNATES PRIVATE SEWERAGE EASEMENT RECORDED ON FINAL SUBDIVISION PLAT No. 13210.
2.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR LOTS 73, 74, 77 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 VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
3.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR LOT 75 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 VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NO BE NECESSARY. THE APPROVAL OF LOT 75 IS FOR SAND MOUND SYSTEM ONLY AS DESIGNATED BY THIS SYMBOL .
4.  THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT FOR LOT 76 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 VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NO BE NECESSARY. THE APPROVAL OF LOT 76 IS FOR TWO STANDARD SEPTIC AREAS AND ONE SAND MOUND AREA FOR A POSSIBLE FUTURE 3RD REPLACEMENT SYSTEM. AS PART OF THE ORIGINAL BUILDING PERMIT THE PIPING SYSTEM AND SEPTIC TANK SHALL BE CONSTRUCTED SUCH THAT HOOK UP TO THE SAND MOUND ALTERNATIVE SYSTEM IS POSSIBLE.
5. A FINAL SAND MOUND CONSTRUCTION PLAN IS TO BE SUBMITTED AND APPROVED IN CONJUNCTION WITH THE FINAL RECORD PLAT REVIEW PROCESS.
6. THE ORIGINAL MDE GROUND WATER APPROPRIATION PERMIT FOR GAITHER HUNT WAS FOR 69 LOTS. A REQUEST FOR AMENDMENT HAS BEEN SUBMITTED AND MUST BE APPROVED PRIOR TO FINAL RECORD PLAT APPROVAL. ALL WELLS MUST BE DRILLED PRIOR TO FINAL PLAT APPROVAL.
7. ALL WELLS AND SEPTIC SYSTEM WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN.
8.  DENOTES PROPOSED WELL LOCATION.
9.  (1500) OR (C) DENOTES PERC HOLE LOCATION APPROVED BY HEALTH OFFICER ON OCTOBER 3, 1997.
10.  DENOTES APPROVED/PROPOSED PERC. TEST LOCATION YEAR 2000.
11.  DENOTES FAILED PERC. TEST LOCATION
12.  DENOTES PROPOSED DWELLING LOCATION.
13. BY APPROVAL OF THIS PLAN THE HEALTH DEPARTMENT HAS DETERMINED THE APPROXIMATE 60,000 SQUARE FOOT SIZE OF LOT 75 and 76 TO BE A NECESSARY REQUIREMENT FOR PROVISION OF ADEQUATE WELL AND SEPTIC CAPACITY.

Note: Section 75 is Final Lot 77

From Signal Per cert Plan

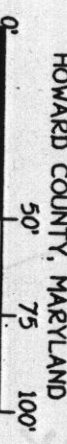
PERCOLATION CERTIFICATION PLAN

GAITHER HUNT

SECTION 2
LOTS 73 THRU 77

(A) RESUBDIVISION OF NON-BUILDABLE BULK PARCEL 7^F, GAITHER HUNT, SECTION 1, AREA 1, PLAT No. 13210)

ZONING: RC-DEO
TAX MAP No. 29 GRID 5 PART OF PARCEL 21
THIRD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND





HOWARD COUNTY HEALTH DEPARTMENT

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

August 2, 2000

Russell Development, LLC
c/o Tom Scrivener
8808 Centre Park Dr. #209
Columbia, Md. 21045

Re: Percolation test results
Infiltrometer for sandmound septic system
Proposed lots 75 & 76
Gaither Hunt Subdivision
Hunters View Rd.

Dear Mr. Scrivener,

Percolation testing was conducted on the above referenced property July 17 and 18, 2000. Results varied; copies of test times and soil profiles (11 pages total) are enclosed.

Further review is contingent upon submission of a percolation certification plan showing the usual information along with an approvable sand mound design for the designated areas.

If you have any additional questions regarding this matter, please feel free to contact me at this office.

Yours truly, _

Craig Williams, Sanitarian

cc: Terry Fisher -FCC

(ENCL.)

FILE

(NUMBERED HOLE LOCATIONS
REFERENCE JUNE 2, 1998
WORKSHEET PAGE 2/6 BY FCC)
(PRESUMABLY AN UNCREDITED REVISION TO...)



HOWARD COUNTY HEALTH DEPARTMENT

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

February 18, 2002

Sanitary/Environmental Eng., Inc.
C/o James Clise
1414 Washington Road
Westminster, Maryland 21157

RE: Sand Mound Design Plan (A511999)
Gaither Hunt Lot 77
Dorsch Farm Road

Dear Mr. Clise:

I'm pleased to inform you that the recently submitted Sand Mound Design Plan for the above mentioned project is approved, with two minor changes, which I've included on the two copies you had forwarded. This site plan differs from the earlier submittal by including three sand mound footprints within the approved Sewage Disposal Area. While somewhat closely spaced, this plan does demonstrate available sewage disposal capacity for a four bedroom sized house.

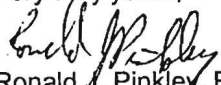
Of the two mentioned changes, the first provides at least two turnups (on diagonally opposing laterals) as shown on the mound layout plan. More than two turnups are also acceptable. The second change is to require a minimum 1250-gallon sized pump chamber for a 4-Bdrm house. This size change is consistent with Howard County policy whenever a single pump system is proposed. (The property owner always has the option of installing a smaller sized pump chamber if a dual pumped system is proposed).

A third item, not included at this time, is the sequence of construction. Rather than using the general sequence as found in the **Sand Mound Design & Construction Manual** (by MDE, Nov. 1987), I suggest a somewhat more detail sequence specific to the limited site access found on this property. That revised sequence of construction will be provide by the local county health dept. at the time of issuance of the Septic Permit.

We are retaining two copies of the approved plans for our records. If you need additional copies with Health Dept. signature, please submit these at your convenience, for pickup or mailing as you select.

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

Very truly yours,


Ronald J. Pinkley, R.S.
Water and Sewerage Program

*Issues Resolved per revised Septic Plan
and Grading Plans
Signed 8/15/02 RPP*

cc: John Lewis (Ryan Homes)

File

FRANK SKINNER

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

TEST DATA

PROFILES

NAME LOT 76 GAITHER HUNT FILE NO A 511999
 LOCATION INFILTRATOR COUNTY _____
DAY 2 DATE _____
 GRID _____ E _____
 RECORDED BY Willie 7/18/00 p5/s MIKE JOHNSON N _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	
2372	40" TOTAL D.	4"			TOP SOIL / SILT		
		10"			SILT W/ TOP SOIL		
		20"			HEAVY SILT		BULK OF LARGE ROOT PENETRATION STOPS BY 12"
		24"			INCREASING SAND		
		TARGET TEST DEPTH 12-18"					
		24-30"				CRUSTY & SLIGHT HYDROMORPHIC APPEARANCE	SMALLER ROOTS TO 24"
2373	36" TOTAL D.					OTHERWISE INDISTINGUISHABLE FROM # 2372	
						24-30' TARGET TEST DEPTH	
2374	34" TOTAL D.	10"			TOP SOIL		
		18"			SILTY / SANDY TOP SOIL LOAM		
		24"			INCREASING SILT	5% RANGE (2-4 MM) GRAINS	2ND DENSEST ZONE
		24-30"			CLAYEY LOAM		DENSEST ZONE
		30-34"			MICA SILT LOAM		
				TARGET TEST ZONE 20"			
				(ZONE BELOW 24" IS MORE GRANULAR, LESS HYDROMORPHIC THAN HOLES 2372; 2373)			
2375	32" TOTAL D.	8"			TOP SOIL - HEAVY GROWTH OF LARGE ROOTS		
					SILT / SAND		
		24"			HEAVIEST SILT ACCUMULATION STARTS AT 24", STILL SANDY (LIMIT OF ROOT PENETRATION)		
					HYDROMORPHIC 'BLOTCHES' SEEM BELOW 18" 566M		

ASSOCIATED WITH OLD ROOT CHANNELS, NOT SEASONAL WATER TABLE
 TARGET TEST ZONE 22"

TEST TIMES

TEST DATA

NAME LOT 76 GAITHOR HUNT FILE NO A 511999
 LOCATION INFILTRATION COUNTY _____
 DAY 2 DATE _____
 GRID _____ E _____
 RECORDED BY Cwill PAGE 4/5 7/18/00 MIKE JOHNSON N _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
2372	18" TEST	—	10:45	45 MINUTE	UNMEASURED	PRESOAK
	BOTTOM	35 1/2" GAUGE	11:30	START	—	
	DEPTH	35"	12:00	30 MIN	1/2" = 1" IN	60 MIN
	(68 MIN/INCH)	34 7/16	12:30	30 MIN	7/16" = 7/8" IN	60 MIN
2373	30" TEST	—	10:45	45 MINUTE	UNMEASURED	PRESOAK
	BOTTOM	9 13/16 GAUGE	11:30	START	—	
	DEPTH	9 10/16	12:00	30 MIN	3/16" = 3/8" IN	60 MIN
	(240 MIN/INCH)	9 8/16	12:30	30 MIN	3/16" = 1/4" IN	60 MIN
2374	22" TEST	—	11:15	60 MINUTE	UNMEASURED	PRESOAK
	BOTTOM	33 1/2 GAUGE	12:05	START	—	
	DEPTH	30 3/4	12:35	30 MIN	2 3/4" = 5 1/2" IN	60 MINUTES
	(15 MIN/INCH)	28 3/4	1:05	30 MIN	2" = 4" IN	60 MINUTES
2375	22" TEST	—	11:15	60 MINUTE	UNMEASURED	PRESOAK
	BOTTOM	21 1/4 GAUGE	12:05	START	—	
	DEPTH	20 1/4	12:35	30 MIN	1" = 2" IN	60 MINUTES
	(40 MIN/INCH)	19 1/2	1:05	30 MIN	3/4" = 1 1/2" IN	60 MINUTES

TEST DATA

NAME GAITHOR HUNT 76 FILE NO A 511999
 LOCATION INFILTRATOR COUNTY _____
 _____ DATE _____
 _____ GRID _____ E
 RECORDED BY Cwiler 7/18/00 p 3/5 MIKE JOHNSON, BILL GRAN N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
2378	34"	8"	TOPSOIL			
	TOTAL DEPTH	14"	SILTY TOPSOIL		LARGEST	ROOT ZONE
		24"	GRADUALLY INCREASING SAND			
		24-34"	SLIGHTLY CLAYEY, FAINTLY HYDROMORPHIC			
			THIS LOCATION STILL OK RE: GROUNDWATER TABLE			
			TARGET TEST ZONE 10-14"			
2379	32"					
	TOTAL DEPTH		SIMILAR TO 2378 EXCEPT THAT			
			MOTTLE STARTS @ 20"			
			TARGET TEST - DEPTH 20"			

TEST DATA

NAME GAITHER HUNT 76 FILE NO 511999
 LOCATION INFILTRATION COUNTY _____
DAY 2 DATE _____
 GRID _____ E
 RECORDED BY C. WILSON 7/18/00 PAGE 2/5 MICHAEL JOHNSON, BILL GRAY N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
2376	32" TOTAL D.	8"				FERTILE / HEAVY ROOT GROWTH
		14"				SLIGHTLY DENSE SILT LOAM
		20"				INCREASING SAND CONTENT
		24"				CLAYEY, SOME MOTTLED
						COULD BE DRAINAGE / COULD BE SEASONAL GROUNDWATER
						TARGET TEST ZONE 10-12"
2377	30" TOTAL D.					INDISTINGUISHABLE FROM 2376 EXCEPT THAT
						ALL PROFILES APPROXIMATELY 2" MORE SHALLOW
						→ LANDSCAPE POSITION IS SLIGHTLY MORE
						DEPRESSED THAN HOLE 2376, I BELIEVE
						THIS LOCATION REPRESENTS THE PASS/FAIL LIMIT
						TO MAXIMUM SEASONAL GROUNDWATER LEVEL
						TARGET TEST ZONE 18"

TEST TIMES

TEST DATA

NAME GAYTON HUNT LOT 76 FILE NO A 511999
 LOCATION INFILTRMETER COUNTY _____
DAY 2 DATE _____
 GRID _____ E
 RECORDED BY C. J. [Signature] 7/18/00 PAGE 1/5 MIKE JOHNSON, BILL GRAU N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
2376	18" TEST	—	1:30	30 MINUTE	UNMEASURED	PASSOAK
	BOTTOM DEPTH		2:00	—	START	
	DEPTH					
	NOTE: 60 - OBVIOUS FINE SAND		APPROXIMATE 5"		DRIP DURING	PASSOAK
					NO WATER AVAILABLE FOR REFILL	
					OBVIOUS PASSING CONDITION	—
2377	16" TEST	—	1:15	45 MINUTE	UNMEASURED	PASSOAK
	BOTTOM DEPTH	17 1/8 GAUGE	2:00	—	START	
	DEPTH	16 1/2	2:15	15 MIN	5/8" = 2 1/2" Per Hour	
	60 MIN/INCH	16	2:30	30 MIN	1/2" = 1" Per Hour	
2378	14" TEST	—	1:15	45 MINUTE	UNMEASURED	PASSOAK
	BOTTOM DEPTH	5 1/8 GAUGE	2:00	—	START	
	DEPTH	4 3/8	2:15	15 MIN	1/2" = 2" Per Hour	
	30 MIN/INCH	3 7/8	2:30	15 MIN	1/2" = 2" Per Hour	
2379	22" TEST	—	1:30	30 MINUTE	UNMEASURED	PASSOAK
	BOTTOM DEPTH	33 1/8 GAUGE	2:00	—	START	
	DEPTH	33 1/8	2:15	15 MIN	1/8" = 1/2" Per Hour	
		33 1/16	2:30	15 MIN	1/16" = 1/4" Per Hour	

TEST DATA

TEST TIMES

NAME GATHON HUNT LOT 75 FILE NO A 51999
 LOCATION INFILTRAMETER COUNTY _____
 _____ DATE _____
 _____ GRID _____ E
 RECORDED BY C. Williams 7/17/00 p1/6 MIKE JOHNSON / BILL BRAD N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
2385	22"	22 ¹¹ / ₁₆ GAUGE	2:00	START	—	
	BOTTOM	22 ⁵ / ₁₆	2:20	20 MIN	5/16 = 15/16 PEN HOUR	56 MIN/IN
		22 ⁷ / ₁₆	2:40	20 MIN	3/16 = 9/16 PEN HOUR	
	(56 MIN/INCH)	21 ¹³ / ₁₆	3:00	20 MIN	5/16 = 15/16 PEN HOUR	
2382	14"	32 ¹ / ₈ GAUGE	2:01	START	—	
	BOTTOM	31 ¹ / ₈	2:21	20 MIN	1 ⁵ / ₈ = 4 ¹ / ₂ " PEN HOUR	
		30 ¹ / ₈	2:41	20 MIN	1" = 3" PEN HOUR	
	(20 MIN/INCH)					
2381	24"	8" GAUGE	2:02	START	—	
	BOTTOM	7"	2:22	20 MIN	1" = 3" PEN HOUR	
		6 ³ / ₈	2:42	20 MIN	5/8" = 2" PEN HOUR	
	(33 MIN/INCH)	5 ⁶ / ₈	3:02	20 MIN	5/8" = 2" PEN HOUR	
2380	26"	33" GAUGE	2:03	START	—	
	BOTTOM	31 ³ / ₄	2:23	20 MIN	1 ¹ / ₄ " = 3 ³ / ₄ " PEN HOUR	
		31	2:43	20 MIN	3/4" = 2 ¹ / ₄ " PEN HOUR	
	(27 MIN/INCH)	30 ¹ / ₄	3:03	20 MIN	3/4" = 2 ¹ / ₄ " PEN HOUR	

PASS

PASS

PASS

PASS

PAGE 5/6

GAITHER HUNT LOT 75

PROFILES

MARYLAND DEPT. OF THE ENVIRONMENT ONSITE SEWAGE DISPOSAL SYSTEM SITE EVALUATION REPORT				FILE NO. MD. GRID: TAX MAP/B/P: SUBDIVISION: DATE: BY:			
SOIL PROFILE DESCRIPTION							
LOT	SECTION						
DEPTH	TEXTURE	MATRIX COLOR	MOTTLES DESCRIPTION	STRUCTURE	CONSISTENCE	%ROCK BY VOL.	REMARKS (Caving, moisture, etc.)
HOLE							
2387	TO 9" 11	ORGANIC BROWN		CRUMBLY TOPSOIL			
	TO 15" 15	LIGHTER ORGANIC BROWN		SILT		5% W/LL MIXED SMALL PEBBLES	HIGHLY STRUCTURED
	30"	INCREASING CLAY	STILL SANDY/SILT				ROOTS THIN OUT BELOW 18" STOP @ 24"
2386	TO 8" 8	ORGANIC BROWN		CRUMBLY			
	TO 20" 20	CLAYNY SILT SAND				10% "BUNCHED" FRAGMENTS TO 4"	ROOTS STOP @ 18-20"
		CLAY @ 20"	INCREASING SAND WITH DEPTH.				
2384	TO 6" 6	ORGANIC BROWN	2-4" MM SANDY/CLAYEY MIX				ROOTS STOP ABRUPTLY AT 22"
	TO 18" 18	ORANGE BROWN	SANDY WITH SLIGHT ROCK			10-15% ROCKY LAY @ 18-22"	
	TO 24" 24	ORANGE CLAYEY					
	TO 30" 30	DENSEST STILL	CLAY WITH HIGH SAND CONTENT				
	TO 36" 36	SILICA SAND CHANGING	SAND/SILT TO MICR SILT				
Slope%-		EL.(ft)-		Chroma 2-		Least Permeable Layers-	
Landscape Position-			Water BLS-		Limiting Zones-		
Additional Remarks-							

30" TOTAL D.

36" TOTAL D.

36" TOTAL D.

D-3

DAY 1 7/17/00

Craig Wilbur

INFILTRATION MIKE JOHNSON

BILL GRAU

TOM SCHEIBNER

PROFILES

TEST DATA

NAME GARDNER HUNT LOT 75 FILE NO A511999
 LOCATION INFILTRATION COUNTY _____
DAY 1 DATE _____
 GRID _____ E
 RECORDED BY Campbell 7/17/00 p3/6 MIKE JOHNSON, BILL GRAU N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
32 ^{ft} 3	2383	6-8"	STRUCTURE			
TOTAL D.		TO 12"	ORGANIC BROWN TOPSOIL			
		12-32"	INCREASING SILT/CLAY			
			DECREASING CLAY / INCREASING MICA SILT			
			TARGET TEST ZONE 12-15"			
34" TOTAL DEPTH	2385	8"	TOPSOIL			
		TO 15"	VERY GRAINY SAND/SILT CLAY			
		TO 22"	DECREASING SAND			
		22-28"	DENSEST CLAY LAY			
		28-34"	INCREASING SAND			CHANGING TO MICA SAND/SILT BY 34-36"
			TARGET TEST ZONE 22-28"			
38 ^{ft} TOTAL DEPTH	2382	6-8"	TOPSOIL			
		8-20"	SILTY CLAY			} 20-30% BOULDERS 8"-30" DEEP
		20"-30"	SANDY CLAY			
			TARGET TEST ZONE 10-18"			

TEST TIMES

TEST DATA

NAME GAITHER HUNT LOT 75 FILE NO A 511999
 LOCATION INFILTRAMETER COUNTY _____
 _____ DATE _____
 _____ GRID _____ E
 RECORDED BY Carrolla 7/17/00 p 2/6 MIKE JOHNSON/BILL GRAY N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	
FAIL 2387	22"	10" GAUGE	11:55	START	—	55 MINUTE UNMEASURED PASSOK	
	BOTTOM	9 5/8	12:25	30 MIN	3/8" = 5/8" IN PER HR		
	1" PER 240 MIN	9 1/2	12:55	30 MIN	1/8" = 1/4" IN PER HOUR		
		OBSERVATION HOLE DRAGGED INTO LOT INTERIOR					
		SOIL COLORS BRIGHTEN TO CONSISTENT WITH OTHER PASSED HOLES @ 25' FROM THIS HOLE.					
PASS 2386	24"	34" GAUGE	11:56	START	—	55 MINUTE UNMEASURED PASSOK	
	BOTTOM	32 3/4"	12:26	30 MIN	1/4" = 2 1/2" IN PER HOUR		
	30 MIN PER INCH	31 3/4"	12:56	30 MIN	1" = 2" PER HOUR		
PASS 2384	24"	34" GAUGE	11:59	START	—	55' MINUTE UNMEASURED PASSOK	
	BOTTOM	33 1/4"	12:29	30 MIN	3/4" = 1 1/2" IN PER HOUR		
	45 MIN/INCH	32 1/2"	12:59	30 MIN	3/4" = 1 1/2" IN PER HOUR		
PASS 2383	14"	21" GAUGE	12:00	START	—	55' MINUTE UNMEASURED PASSOK	
	BOTTOM	20 3/8"	12:30	30 MIN	5/8" = 1 1/4" PER HOUR		
	43 MIN/INCH	19 5/8"	1:00	30 MIN	5/8" = 1 1/4" PER HOUR		

SANITARY/ENVIRONMENTAL ENG., INC.

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

GAITHER HUNT

JOB _____
 SHEET NO. LOT 77 OF _____
 CALCULATED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 SCALE _____

4 Bed rooms x 150 = 600 gpd ÷ 1.2 = 500 sq. ft Sand bed

Slope = 4/40' = 10% 9' x 56' = 504 sq ft OK

up side sand = 24"

down side sand = 24" + (0.1 x 108") = 24 + 10.8 = 34.8"

up slope = (24" + 22") (3) (0.77) = 106" = 8'-10"

Down slope = (34.8" + 22") (3) (1.44) = 245" = 20'-5"

side slope = $\frac{24" + 34.8" + 28}{2} (3) = 172" = 14'-4"$

W = 9' + 8'-10" + 20'-5" = 38'-3"

L = 56' + 14'-4" + 14'-4" = 84'-8"

Dose - 3 laterals - 1 1/4" @ 52.5' x 5 = 787.5' @ 7.8 gal/100'
 7.875 x 7.8 = 61¹⁴⁰⁵ gal (laterals)

force main = 45' + 6' manifold + 3.66' = 54.66' (55')
 55' - 3" f.m. @ 38.4 gal/100' = 0.55 x 38.4 = 21 gal ✓

Dose = 61 gal + 21 gal = 82 gal (actual pc placement will probably be 20-25' longer FM = Mod diff.)
 Use 600 gpd / 6 = 100 gal dose OK

100 gal / 7.48 = 13.37 cu ft (area of pump chamber = 37.6 sq. ft)
 if Tank is 8'14" x 4'7" = 47.5' x 4'9" = 43.5' x 4'9" = 39.57 sq ft
 3.37 cu ft / (37.6 sq. ft) = 0.36' = 4.27" (use 4 1/2") OK
 3.37 x 3.34 = 4.05' (side of left tank area)

Pump rate = 1.63 gpm/perforation x 48 perforations = 78.24 gpm OK

TDH - ELEV. DIFFERENCE 468.66 - 461.66 = 7'
 Distal Head 2'

SANITARY/ENVIRONMENTAL ENG., INC.

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

JOB _____
 SHEET NO. _____ OF _____
 CALCULATED BY _____ DATE _____
 CHECKED BY _____ DATE _____
 SCALE _____

friction - 789 gpm - OK

2" line (in pump chamber)

G' + valve + L + union + L + L

$G' + 1.3' + 7' + 2' + 7' + 7' = 30 \text{ eq. ft. OK}$

$F = 0.0984 \frac{78^{1.85}}{2.067^{4.87}} = 0.0984 \frac{3165}{34.33} = 9' / 100' \text{ (OK)}$

$F - 2" = 0.3 \times 9 = 2.7'$ Don't know how he got this but it's > .95' restriction
From chart Friction loss of 3" pipe @ 80 gpm / 100' is OK

3" line - 789 gpm - @ 1.38' / 100'

55' + L + T

$55' + 7' + 10' = 72 \text{ eq. ft.}$

$F = 0.72 \times 1.38 = 0.99' (1') \text{ OK}$

if at 20 LFM (see all plan)
 get .92 x 1.38 = 1.27'

$F = 2.7 + 1 = 3.7' \text{ OK}$

so .95
 2.22'
 so 3.7' is great
 make OK

$TDH = 7' + 2' + 3.7' = 12.7' (13')$

∴ Pump design
 $\approx 13' TDH @ 789 \text{ gpm}$
 is acceptable.
 PJP 2/18/02

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157

(410) 876-7740
FAX (410) 840-9924

LETTER OF TRANSMITTAL

DATE	Feb 6 / 02	JOB NO.
ATTENTION	RON PINKLEY	
RE:	LOT 77 GARDNER HUNT SANDMOUND	

TO HOWARD CO. HEALTH DEPT.
BUREAU OF ENV. HEALTH
3525 H ELLICOTT MILLS DRIVE
ELLICOTT CITY, MD 21043

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
2			PRINTS - PLANS + SPECIFICATIONS
			RESERVE - REPLACEMENT AREAS

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____

FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS 2/18/02 RR. Revised site plan & 4 Birm design and original (Aug '01) calculation is acceptable.
- see HCHD additions ① ^{PC} 1250 gal/min. required ② please include two turnups (as noted on comment
& HCHD approach plan)

COPY TO File

SIGNED: Jim Clise

FISHER, COLLINS & CARTER, INC.

10272 Baltimore National Pike
 ELLICOTT CITY, MD 21042

LETTER OF TRANSMITTAL

(410) 461-2855
 FAX (410) 750-3784

TO No. Co. Health Department
3525-H Ellicott Mills Drive
Ellicott City, Md. 21043

DATE	<u>2-5-02</u>	JOB NO.	<u>61206</u>
ATTENTION	<u>BON PINKLEY</u>		
RE:	<u>Gaither HUNT</u>		
	<u>Lot 77</u>		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
<u>1</u>			<u>Revised SDP</u>
			<u>Address</u>
			<u>rec'd 2/5/02 TC. E. H. Miller (Grading & Excavation Inspector) the builder has a grading permit</u>
			<u>but they not have graded yet.</u>
			<u>rec'd Brian Uca Bough - Discovered issues & history of LOD to SDA + finding of SDA</u>
			<u>prior to my grading.</u>
			<u>Plan uses same calculations as submitted + rec'd 2/8/12/01</u>

THESE ARE TRANSMITTED as checked below:

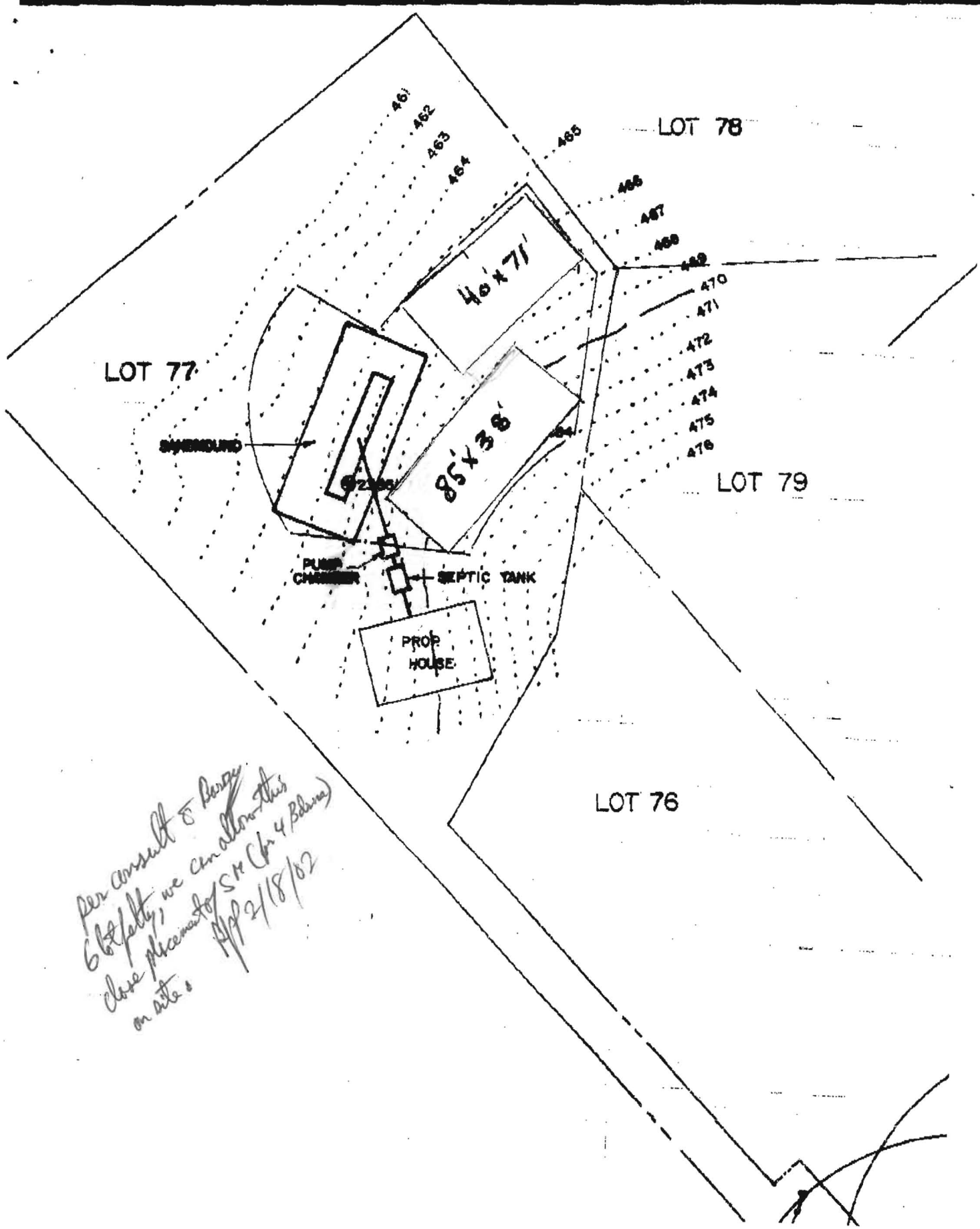
- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS Please accept the above referenced project
for approval. The plan shows the new sand
mound locations provided by Mr. Jim Clise of
Sanitary/Environmental Eng., Inc. Also the
house has been relocated to be 20 feet
away for the designated mound areas. If
you have any questions or if the plan requires
additional information, please do not hesitate
to call

Thank you

COPY TO _____

SIGNED: Joey Ecker



*per consult to Perry
 6/2/02, we can allow this
 close placement of SH (for 4 Bedrooms)
 on site.
 APP 2/18/02*

SANITARY/ENVIRONMENTAL ENG., INC.

CONSULTING ENGINEERS
1414 WASHINGTON ROAD
WESTMINSTER, MARYLAND 21167
PHONE: (410) 876-7740 • FAX: (410) 840-9924

DATE Jan 24 02 TIME _____ A.M. P.M. NUMBER OF PAGES (Including Cover Letter): 2

NOTE: If you did not receive all of the pages or if you have a question, please call the verifying number (below).

TO: RON PINKLEY

FROM: Jim Clise

CO NAME	NAME
ADDRESS	SUBJECT
ATTENTION	FAX NO.
FAX NO.	VERIFYING NO.

LOT 77
GAITHER HUNT
2 RESERVE SITES
(410) 313-2648



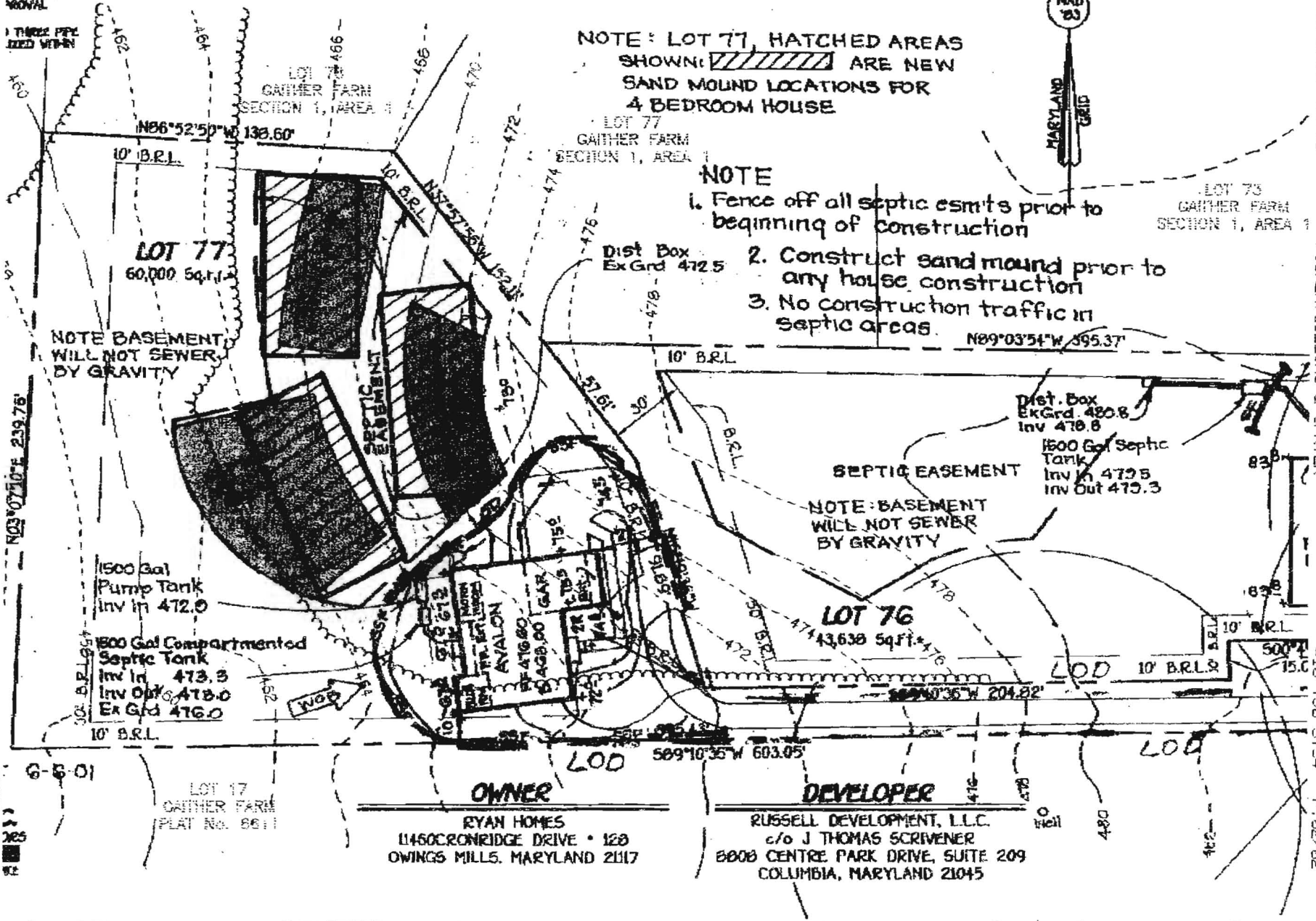
REMARKS:

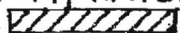
SCALE IN THE
ED
ECTOR
UPON
COMMENT
SECTION
PROVAL

spread at the rate of 4-8 tons/acre (200-400 pounds/1,000 sq. ft.) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil in conjunction with tillage operations as described in the following procedures.

For sites having disturbed areas under 5 acres:
Place topsoil of required and apply soil amendments as specified in 2.0.0 vegetative stabilization-
Section 1 - Vegetative Stabilization Methods and Materials.

THREE PIPE
SIZED WITHIN



NOTE: LOT 77, HATCHED AREAS SHOWN:  ARE NEW SAND MOUND LOCATIONS FOR 4 BEDROOM HOUSE

LOT 77
GAITHER FARM
SECTION 1, AREA 1

NOTE

1. Fence off all septic esmt's prior to beginning of construction
2. Construct sand mound prior to any house construction
3. No construction traffic in septic areas.

NOTE BASEMENT WILL NOT SEWER BY GRAVITY

NOTE: BASEMENT WILL NOT SEWER BY GRAVITY

TOTAL P. 02

6-5-01

LOT 17
GAITHER FARM
PLAT No. 8611

OWNER

RYAN HOMES
11450 CRONRIDGE DRIVE • 128
OWINGS MILLS, MARYLAND 21117

DEVELOPER

RUSSELL DEVELOPMENT, L.L.C.
c/o J THOMAS SCRIVENER
8808 CENTRE PARK DRIVE, SUITE 209
COLUMBIA, MARYLAND 21045



FEB-05-2002 15:53

FISHER, COLLINS & CARTER

410 750 3794 P. 02/02

FISHER, COLLINS & CARTER, INC.

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

CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS

2/5/02

Transmittal

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

To: Ho. Co. Health Dept.	Attn: Ron Finkley
	Fax:
	Phone:

From: Brian Lucabaugh	CC:
-----------------------	-----

Re: Gather Hunt LOT 11	W.O.#
Date: 2-5-02	Pages: Page(s) including this cover

We are forwarding:	<input 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: As per our phone conversation Notes 1, 2 & 3 have been added to the plan. Also the L.O.D. has been revised accordingly.

Fax for +
see

Thanks!

Received
6P(76+77)
01-188

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.

Date

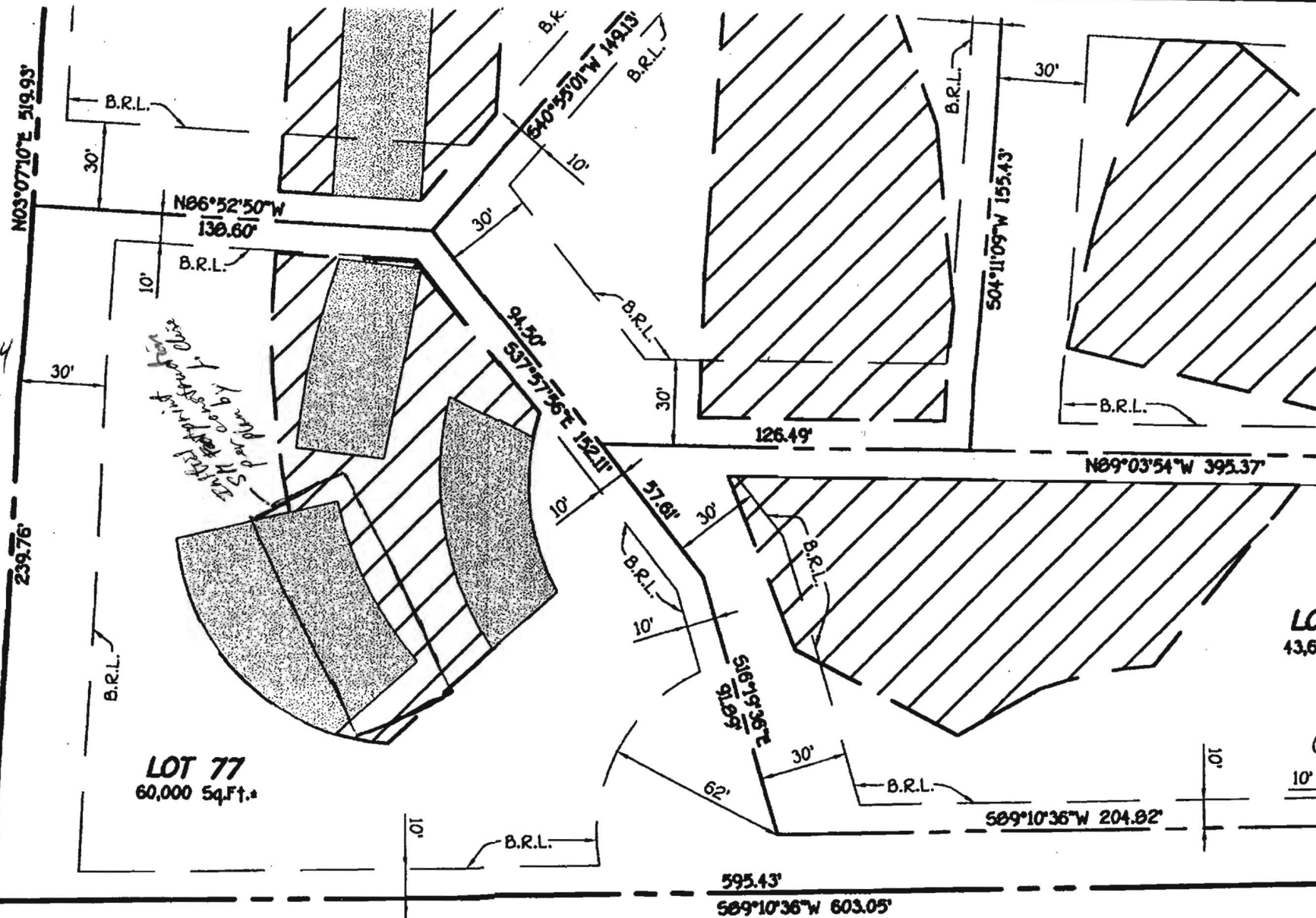
ERIK OF
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DEL 20

*Garth Hunt
Sect 1 Area
into 95-99
From Signed
Record Plat F-01-144*

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OWNER

CARROLL LAND FAMILY CORPORATION
c/o J THOMAS SCRIVENER
8808 CENTRE PARK DRIVE, SUITE 209
COLUMBIA, MARYLAND 21045

DEVELOPER

RUSSELL DEVELOPMENT, L.L.C.
c/o J THOMAS SCRIVENER
8808 CENTRE PARK DRIVE, SUITE 209
COLUMBIA, MARYLAND 21045



OWNER'S CERTIFICATE

Carroll Land Family Corporation, By Camilla Carroll, President, Owner Owners Of The Property Shown And Described Hereon, Hereby Adopt This Plan Of Subdivisions And In Consideration Of The Approval Of This Plat By The Department Of Planning And Zoning Establish The Minimum Building Restriction Lines. All Easements Of Rights-Of-way Affecting The Property Are Included In The Plan Of Subdivision. Witness My Hand This 9th Day Of October, 2001.

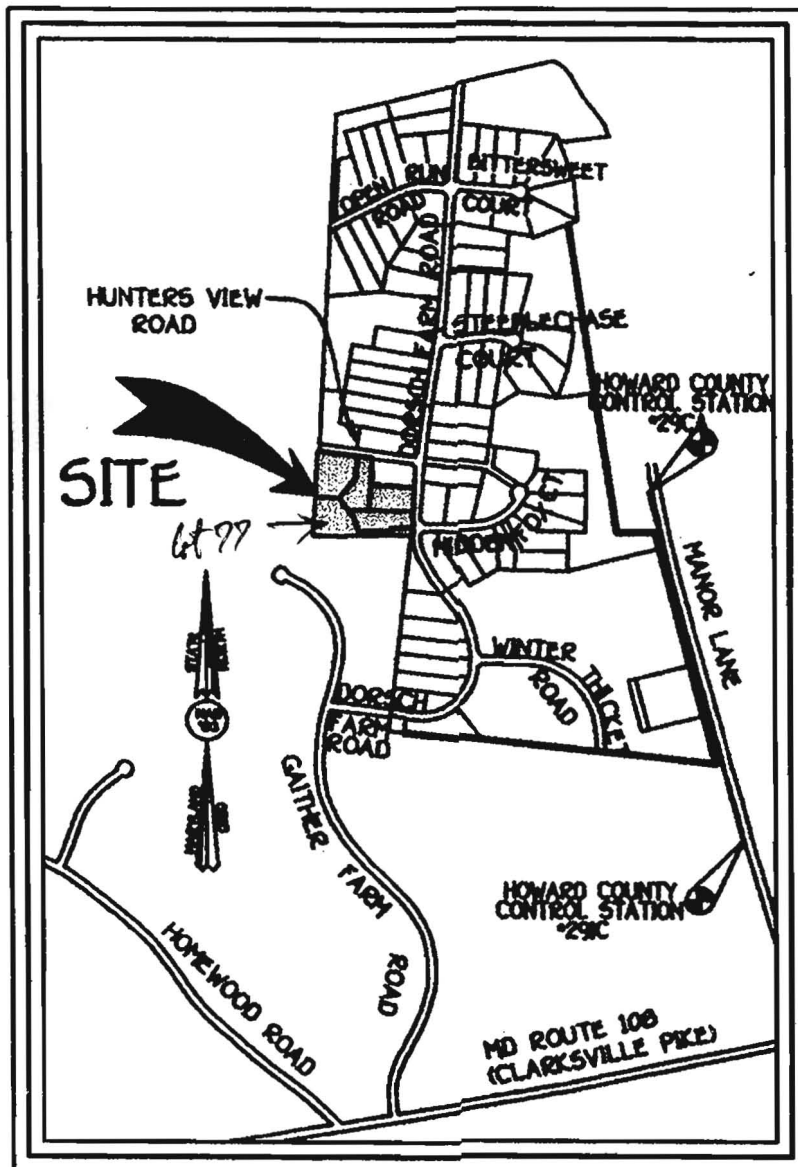
SURVEY

I Hereby Certify That The First Subdivision Of Part Of That Family Corporation By Deed D The Aforesaid Land Records

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 Sewage 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 Variances For Encroachments Into The Private Sewerage Easement. Recordation Of A Modified Easement Shall Not Be Necessary. The Approval Of Lot 77 Is For Sand Mound System Only As Designated By This Symbol . The Approval Of Lot 78 Is For Two Standard Septic Areas And One Sand Mound Area For A Possible Future Third Replacement System, As Part Of The Original Building Permit. The Piping System And Septic Tank Shall Be Constructed Such That The Hook Up To The Sand Mound Alternative System Is Possible. Detailed Sand Mound Plans For Lot 77 Have Been Submitted To The Howard County Health Department For Review And Approval.
2. Subject Property Zoned RC-DEO Per 10/18/93 Comprehensive Zoning Plan.
3. Coordinates Based On Nad '83 , Maryland Coordinate System As Projected By Howard County Geodetic Control Stations No. 29CA And No. 29IC.
Sta. 29CA N 175115.9070 (Meters) E 409509.9057 (Meters)
Sta. 29IC N 174444.5640 (Meters) E 409606.2394 (Meters)
4. This Plat Is Based On Field Run Monumented Boundary Survey Performed On Or About August, 1996, By Fisher, Collins And Carter, Inc.
5. B.R.L. Denotes Building Restriction Line.
6. • Denotes Iron Pin Set Capped "T.C.C. 106".
7. ✎ Denotes Iron Pipe Or Iron Bar Found.
8. ◦ Denotes Angular Change In Bearing Of Boundary Or Rights-Of-Way.
9. ■ Denotes Concrete Monument Set With Aluminum Plate "T.C.C. 106".
10. ✎ Denotes Concrete Monument Or Stone Found.
11. Use-In-Common Driveway(s) 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 Residence);
 - b) Surface - Six (6") Inches Of Compacted Crusher Run Base With Tar And Chip Coating. (1 -1/2" Minimum);
 - c) Geometry - Maximum 15% Grade, Maximum 10% Grade Change And 45-Foot Turning Radius;
 - d) Structures (Culverts/Bridges) - Capable Of Supporting 25 Gross Tons (H25-Loading);
 - e) Drainage Elements - Capable Of Safely Passing 100 Year Flood With No More Than 1 Foot Depth Over Surface;
 - f) Structure Clearances - Minimum 12 Feet;
 - g) Maintenance - Sufficient To Ensure All Weather Use.
12. All Lot Areas Are More Or Less (±).
13. Distances Shown Are Based On Surface Measurement And Not Reduced To Nad '83 Grid Measurement.
14. Plat Subject To Prior Department Of Planning And Zoning File Nos. 596-18, P97-08 And F98-24.
15. The Wetlands Delineation Study Was Prepared By Eco-Science Professionals, Inc. And Approved By Howard County On August, 1996 Under 596-18.
16. The Traffic Study Was Prepared By The Traffic Group And Approved By Howard County, Maryland On August 16, 1996 Under 596-18.
17. The Forest Conservation Obligation Of 1.9 Acres Of Afforestation (Planting) In An Existing On-Site Forest Conservation Easement Has Been Satisfied For This Submission Under The Provisions Of Section 1, Area 1 (F98-24) And Section 1, Area 2 (F98-76) Of The Gaither Hunt Subdivision.
18. Articles Of Incorporation Of Gaither Hunt Homeowner's Association, Inc. Filed With The Maryland State Department Of Assessments And Taxation On January 26, 1998 As Account No. 04894457 And Recorded Among The Land Records Of Howard County, Maryland In Liber 4373 At Folio 298.

From Gaither Hunt Sect 1 Area 1 (lots 75-79)
 Signal Record Plot F-D1-144



VICINITY MAP
 SCALE: 1" = 1200'

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 Making
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101
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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

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.

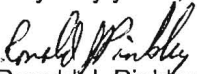
Given the above site limitations, I suggest installation of the primary Sand Mound first, followed by installation of the septic tank and pump chamber. Once the protective fencing is replaced, protecting the SDA, the house construction and careful grading may then proceed.

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 Sq. Ft.
 BED = 9' x 56' = 504 Sq. Ft.

UP SIDE SAND = 24"
 DOWN SIDE SAND = 24" + (0.1 x 108") = 24" + 10.8" = 34.8"

UP SLOPE SETBACK (24" + 22") (3) (0.77) = 106" = 8'-10"

DOWN SLOPE SETBACK (34.8" + 22") (3) (1.04) = 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 GPD / 6 = 100 GAL.
 100 GAL / 7.48 GAL / CU FT = 13.37 CU FT
 13.37 CU FT / 37.6 SQ. FT = 0.36' = 4.27" (USE 4 1/2")

PUMP RATE = 48 PERFORATIONS x 1.63 GPM = 78 GPM

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

f @ 78 GPM
 2" LINE (IN PUMP ON XMBER)
 6' + VALVE + L + UNION + L + L
 6' + 1.3 7 - 2 + 7 + 7 = 30 EQ FT
 f = 9' / 100' = 0.3 x 9 2.7'

3" LINE
 55' + L + T = 55 + 10 + 15 = 80 EQ FT
 f = 1.38' / 100' = 0.8 x 1.38 = 1.1'

TDH = 17.8 (18')
 PUMP - GOULDS MODEL 3885 WEIGH 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 distancc 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).
- Best case → • 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. 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

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.

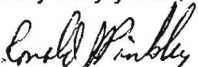
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Proposals for minor waivers of these spacing restrictions may be entertained on a case-by-case basis. Any such proposal must be accompanied by a detailed sequence of construction outline, clearly demonstrating how protection of the sand mound areas 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

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File

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