

APPLICATION

PERCOLATION TESTING

A 518647

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 410-313-2640

DISTRICT _____

DATE 5/11/2003

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 Thomas Clark Linthicum

ADDRESS c/o 4231 Linthicum Road, Dayton, MD 21036 PHONE 410-531-3137

AGENT OR PROSPECTIVE BUYER Tracy D. Griffin

ADDRESS 4231 Linthicum Road, Dayton, MD 21036 PHONE 410-531-3137

PROPERTY LOCATION:

SUBDIVISION (Agnes L. Linthicum Subdivision) *Linthicum Oaks II* LOT NO. 2

ROAD AND DESCRIPTION West Side Linthicum Road

TAX MAP NO. 22 PARCEL # 50

SIZE OF LOT 8.66 Acres TYPE OF 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' 501A

Orange brown SCL

possible H₂O as high as 2'

3' water 507A

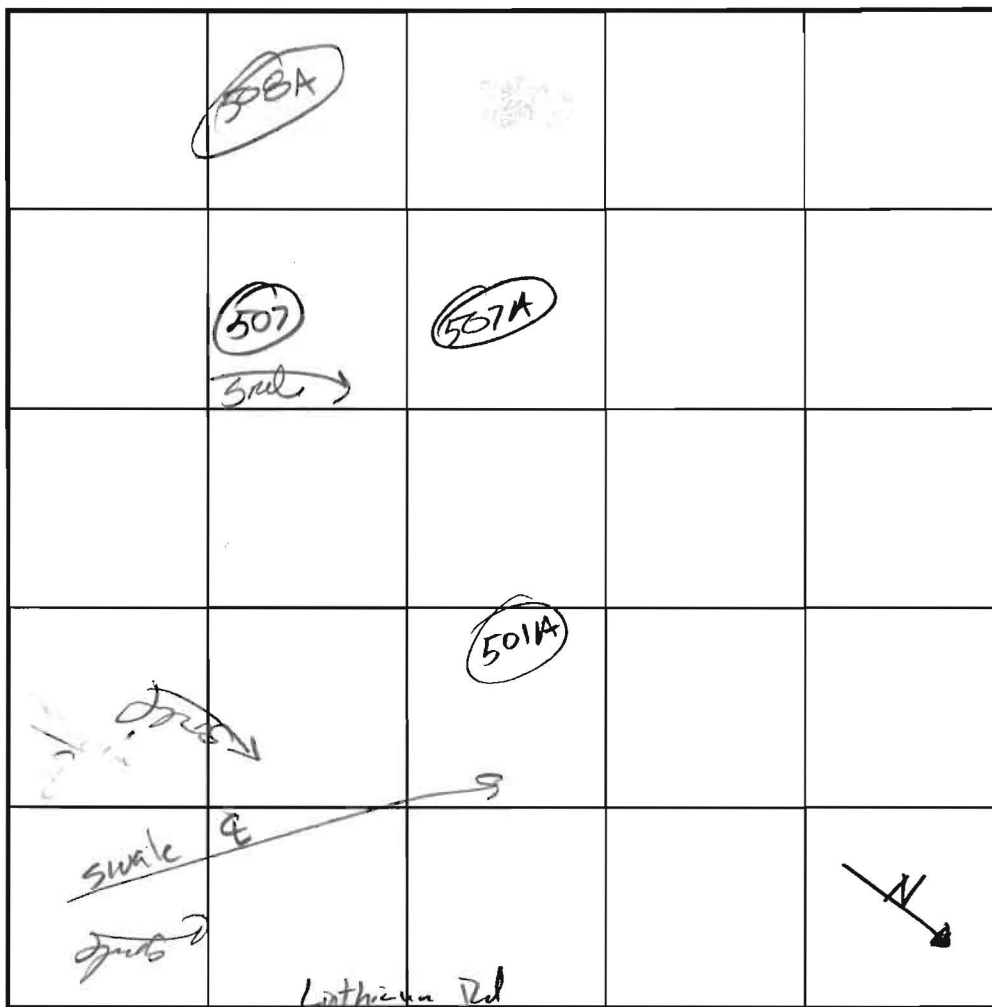
Orange brown SiCL

2' Deep orange brown SiCL

3/2' water 507

Brown SCL w/ platy structure

3' orange brown fine L/SiL



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

0' 508A

Orange brown lewy SCL

2

Orange brown SCL

w/ 45-50% channery frags

6

orange brown SL w/ 50-55% channery frags

water

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6/12/03	501A	3V					F
	507A	3 1/2 V					F
	507	4 1/2 V	possible sand mound; need plan				H
	508A	8 1/2 V	possible sand mound; need plan				H

REMARKS 2003 w.s. test pits to verify water table

TYPE OF SOIL

TESTED BY J. Boris

ALSO PRESENT Heritage

TRENCH DESIGN DATA: AVG. PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM

4 1/2

APPLICATION

PERCOLATION TESTING

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 410-313-2640

A 518647

P _____

DISTRICT _____

DATE 5/1/2003

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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AGENT OR PROSPECTIVE BUYER Tracy D. Griffin

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PROPERTY LOCATION:

SUBDIVISION Agnes L. Linthicum Subdivision *Linthicum Oaks II* LOT NO. 1

ROAD AND DESCRIPTION West Side Linthicum Road

TAX MAP NO. 22 PARCEL # 50

SIZE OF LOT 3.06 Acres TYPE OF BLDG. SFD
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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BUREAU OF ENVIRONMENTAL HEALTH

3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 410-313-2640

DISTRICT _____

DATE 5/1/2003

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THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

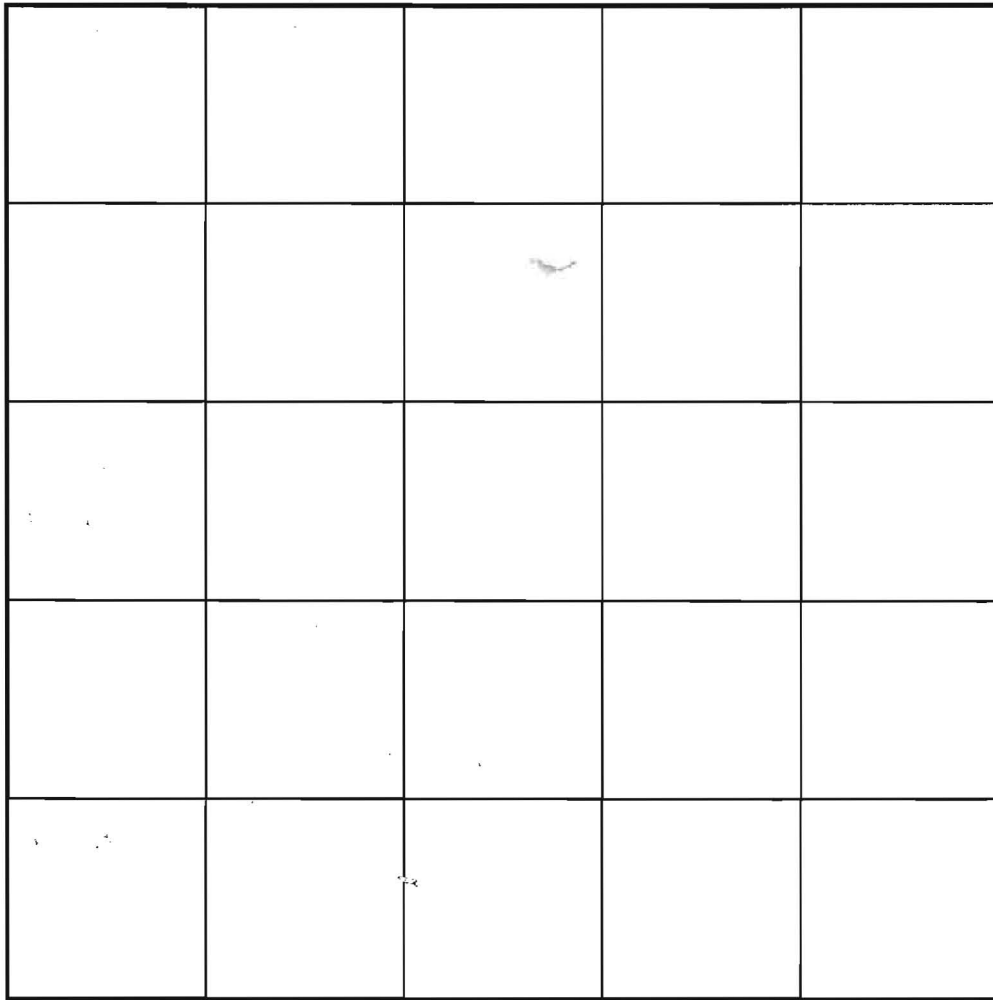
0' 540
 Brown L
 6" orange brown SCL
 2 1/2" red orange cu SL w/ 10-15% friable saprolite
 8 1/2" water 537

8" Brown L w/ 50-60% hard saprolite dipping @ ~ 70°
 29" brown micaceous SL w/ 1 nodules

536
 6" Brown L
 orange brown SCL
 18" platy + micaceous SCL w/ 40-50% weak saprolite

SOIL PROFILE

0' 541
 heavy Brown L
 9" Brown heavy SCL
 2 1/2" orange brown SCL
 5" orange brown clay L w/ 10-15% weak saprolite
 9" water



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
	540	4' 9"	9:35	No movement			
	537						
	536						
	541	9V				F	

REMARKS holes dug per plan

TYPE OF SOIL _____

TESTED BY _____ ALSO PRESENT _____

TRENCH DESIGN DATA: AVG. PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

9

MOUND TEST DATA SHEETS

Property I.D. Linthicum Oaks II Lot # 2 Date 9/17/03

Sanitarian J. Borja + K. Bell Landscape Position _____

% Slope _____ Soil Type _____ Contractor CAC, Heritage

HOLE # 533 DEPTH OF TEST 20" START TIME 9:54

4" Brown L
w/ 5-10% coarse frags

24" Brown SCL
w/ 25-35% channery biotite schist

4" Brown SCL
w/ 55-65% biotite schist

4" refusal

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
6 ⁹ / ₁₆				
5 ⁹ / ₁₆	10:09 (15min)	1 ² / ₁₆ (.125)	13 mpi	
4 ¹¹ / ₁₆	10:19 (10min)	1 ³ / ₁₆ (.8125)	12 mpi	
ADD 7 ¹³ / ₁₆				
7 ⁸ / ₁₆	10:29 (10min)	5 ¹ / ₁₆ (.3125)	32 mpi	
6 ¹⁰ / ₁₆	10:39 (10min)	1 ⁴ / ₁₆ (.875)	11 mpi	
6 ⁰⁰ / ₁₆	10:49 (10min)	1 ⁰ / ₁₆ (.625)	16 mpi	
5 ⁸ / ₁₆	10:59 (10min)	2 ¹ / ₁₆ (.50)	2 mpi	
5 ⁰⁰ / ₁₆	11:09 (10min)	8 ¹ / ₁₆ (.50)	2 mpi	

hole passed
= 24"

HOLE # 532 DEPTH OF TEST 23" START TIME 10:15

12" Brown gravelly L
Orange brown blk SCL
w/ 5-10% coarse frags

23" heavy orange brown SCL
w/ 35-45% coarse frags

4" gray micaceous SL

6" refusal

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
7 ¹⁰ / ₁₆				
6 ¹² / ₁₆	10:25 (10min)	1 ⁴ / ₁₆ (.875)	11 mpi	
6 ⁸ / ₁₆	10:35 (10min)	4 ¹ / ₁₆ (.25)	140 mpi	
6 ⁴ / ₁₆	10:45 (10min)	4 ¹ / ₁₆ (.25)	140 mpi	
6 ⁰⁰ / ₁₆	10:55 (10min)	4 ¹ / ₁₆ (.25)	140 mpi	
5 ¹⁰ / ₁₆				

hole passes
1.5/30 min

MOUND TEST DATA SHEETS

Property I.D. Linthicum Oaks II Lot # 2 Date 9/17/03

Sanitarian J. Boris Landscape Position _____

% Slope _____ Soil Type _____ Contractor CK + Heritage

HOLE # 534 DEPTH OF TEST 17" START TIME 1:00

14"
Brown SCL
w/ 25-30%
weathered channery
gneiss frags

34"
Brown
SCL
w/ 45-55%
weathered
channery +
platy gneiss
frags

34"
Brown SCL/L
w/ 70-80%
weathered platy
+ channery gneiss
frags

53"
fractured
rock (natural)

Hook Gauge Reading	Elapsed Time (min)	Measured Drop (in)	Estimated Rate	% Change
8 ⁰⁰ / ₁₆				
6 ⁶ / ₁₆	1:21 (21 min)	1 ¹⁰ / ₁₆ (1.625)	12 mpi	
5 ¹² / ₁₆	1:31 (10 min)	1 ¹⁰ / ₁₆ (.625)	16 mpi	
4 ¹⁰ / ₁₆	1:53 (22 min)	1 ² / ₁₆ (.125)	20 mpi	
4 ² / ₁₆	2:02 (9 min)	3 ⁸ / ₁₆ (.50)	18 mpi	
1 ¹³ / ₁₆	2:59 (57 min)	2 ⁷ / ₁₆ (2.3125)	24 mpi	

2.86

1.125

2.78

hole passes

HOLE # 535 DEPTH OF TEST 19" START TIME 12:58

9"
Brown gravelly
SiCL

15"
Orange brown
SCL w/ 25-35%
weathered gneiss
frags

15"
orange brown
SiCL/L w/ 40-50%
weathered gneiss
frags

26"
orange brown
L w/ 25-30%
channery gneiss
frags

5 1/2"
fractured rock

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 ⁰⁰ / ₁₆				
7 ¹⁴ / ₁₆	1:19 (21 min)	2 ² / ₁₆		
7 ¹³ / ₁₆	1:29 (10 min)	1 ⁷ / ₁₆	.39 iph	
7 ¹³ / ₁₆	1:39 (10 min)	0		
7 ¹² / ₁₆	2:04 (25 min)	1 ⁷ / ₁₆	.15 iph	

.063

Hole fails

TEST DATA

NAME Linthicum Oaks FILE NO _____

LOCATION _____ COUNTY _____

DATE _____

GRID _____

RECORDED BY J. Boris

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME Min	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
536A		15"	12:34 12:44 1:44 1:55	10 60 10	7 ¹ / ₁₆ 7 ¹ / ₁₆ (.1875) 6 ¹ / ₁₆ (.375) 6 ¹ / ₁₆ (.0625)	53 mpi 160 mpi 160 mpi hole fails too slow
537A		10"	12:27 12:42 1:33	15 51	7 ¹ / ₁₆ 7 ⁹ / ₁₆ (.3125) 7.00 (.5625)	48 mpi 90 mpi hole fails too slow

TEST DATA

NAME <u>Linthicum Oaks</u>	FILE NO _____
LOCATION _____	COUNTY _____
_____	DATE _____
RECORDED BY <u>J. Boris</u>	GRID _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME MIN	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
538		15"	11:04		8.00	
			11:14	10	7 ³ / ₈ (.375)	27 mpi
			11:44	30	7.00 (.625)	48 mpi
			12:20	36	6 ¹ / ₁₆ (.375)	96 mpi
			12:38	18	6 ⁷ / ₁₆ (.1875)	96 mpi
			12:58	20	6 ³ / ₁₆ (.250)	80 mpi
			1:13	15	6 ¹ / ₁₆ (.125)	120 mpi
						hole fails slow
539		14"	10:58		8.00	
			11:12	14 min	7 ³ / ₃₂ (.9063)	15 mpi
			11:22	10	7 ¹ / ₈ (.125)	80 mpi
			11:42	20	7.0 (.125)	160 mpi
			12:18	36	6 ²⁷ / ₃₂ (.1563)	230 mpi
			12:38	20	6 ²⁵ / ₃₂ (.2188)	91 mpi
			12:56	18 (42)	6 ²⁵ / ₃₂	
			1:20	24	6 ² / ₃₂ (.375)	112 mpi
						hole fails slow

MOUND TEST DATA SHEETS

Property I.D. Lithicum Oaks II Lot # 2 Date 9/16/03

Sanitarian J. Boas Landscape Position _____

% Slope _____ Soil Type _____ Contractor CHC, Heritage

HOLE # 531 DEPTH OF TEST 21" START TIME 11:51

8"
Brown heavy
SiCL

orange brown
SCL/L
w/ 35-45%
weathered cherty
gneiss frags

30"
Orange brown
SCL/L
w/ 60-70%
weathered cherty
gneiss frags

ch water

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 9/16				
9 9/16	12:01 (10 min)	0	0	
9 8/16	12:16 (15 min)	1/16 (.0625)	.24 mpi	

Hole Failed too slow

HOLE # 530 DEPTH OF TEST 15" START TIME 11:55

16"
Dark brown SCL

Dark brown SCL/L
w/ 25-35%
weathered mica
schist frags

26"
Dark brown
L/SCL w/ 55-65%
weathered
gneiss frags

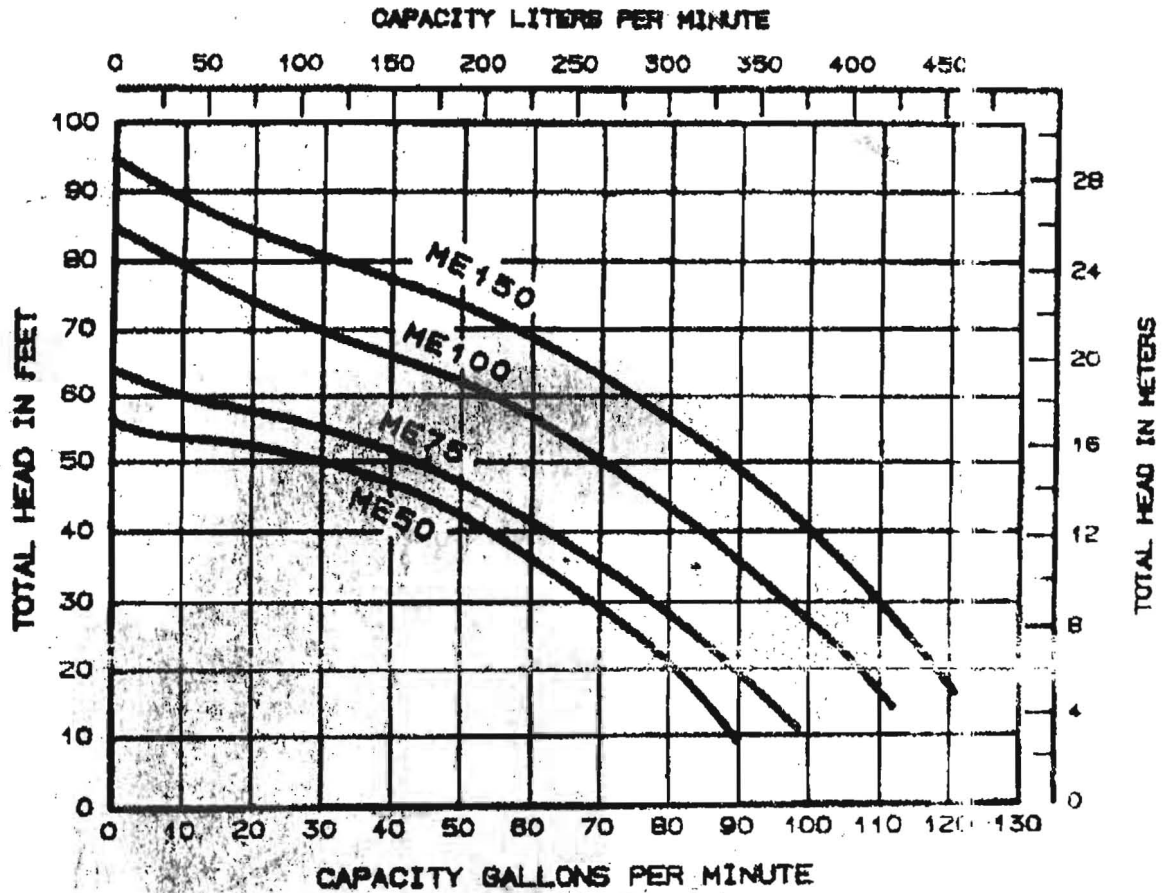
32"
Dark brown
SCL w/ 60-70%
weathered gneiss
frags

3/2
refusal
fractured rock

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
8 00/16				
7 14/16	12:05 (10 min)	3/16 (.125)	80 mpi	
7 12/16	12:20 (15 min)	3/16 (.125)	80 mpi	0

Hole failed too slow

ME Series 1/2 through 1-1/2 HP Effluent Pumps Performance Curve



4070 Linthicum Rd

ME-75 pump



1101 Myers Parkway, Ashland, Ohio 44805-1969
419.269-1144 Fax 419.207-0200

Lot

TEST DATA

NAME _____	FILE NO _____
LOCATION _____	COUNTY _____
_____	DATE _____
RECORDED BY <u>J. Boris</u>	GRID _____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)	
537		22"	10:01		8.0		
			10:10	9	7 ⁵ / ₁₆ (.9375)	9.6 mpi	
			10:25	15	6 ⁷ / ₁₆ (.813)	8 mpi	
			10:35	10	5 ⁹ / ₁₆ (.625)	16 mpi	
			10:45	10	5 ⁷ / ₁₆ (.375)	26 mpi	
			reset				ADDED water
			11:00		7 ¹ / ₁₆		
			11:15	15	6 ¹ / ₁₆ (.875)	17	
			11:30	15	5 ⁷ / ₁₆ (.625)	24 mpi	
							hole passes
536		17"	10:10		7 ⁶ / ₁₆		
			10:20	20	6 ¹ / ₁₆ (.6875)	29 mpi	
			10:35	15	6 ¹ / ₁₆ (.3125)	48 mpi	
			10:50	15	6 ¹ / ₁₆ (.125)	120 mpi	
			11:20	30	6.0 (.250)	120 mpi	
			11:35	15	5 ⁷ / ₁₆ (.0625)	240 mpi	
							hole fails

SANITARY/ENVIRONMENTAL ENG, INC

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

JOB LINTHICUM OAKS
 SHEET NO. SECOND TRACT OF _____
 CALCULATED BY _____ DATE 3/3/05
 CHECKED BY SANDMOUNA DATE _____
 SCALE _____

4 BED ROOM x 150 = 600 GPD 5% SLOPE
 LOADING RATE = 1.0 GPD/SQ FT = 600 SQ. FT.
 BED = 9' x 70' = 630 SQ. FT.
 LINEAR LOADING RATE = 600 GPD/70' = 8.6 GAL/FT

UPSIDE SAND DEPTH = 12"
 DOWN SIDE SAND DEPTH = 13' - (.05 x 128") = 17 1/2"

UP SLOPE SETBACK = 12" + 22" (3) (0.88) = 90" = 7'-6"
 DOWN SLOPE SETBACK = 17.5" + 22" (3) (1.18) = 140" = 11'-8"
 SIDE SLOPE SETBACK = $\frac{12" + 17.5" + 22" (3)}{2} = 128" = 10'-8"$

MOUND LENGTH = 70' + 10'-8" + 10'-8" = 91'-4"
 MOUND WIDTH = 9' + 7'-6" + 11'-8" = 28'-2"

PUMP RATE = 40 PERFORATIONS @ 1.65 = 65 GPM

PUMP DOSE = 5 x 4 x 33.25' - 2" LATERALS = 665'
 PLUS = 240 - 2" = 905' - 2" PER @ 17.4 GAL/100' = 157 GAL
 157 GAL / 7.48 = 21 CU FT / 60 SQ. FT = 0.35' = 4.25"
 EMERGENCY STORAGE = 60 SQ. FT. x 1.9' = 114 CU FT = 853 GAL

VDH - ELEV. DIFFERENCE = 552.16 - 543.50 = 8.7'
 DISTAL HEAD = 2.0'

C = 65 GPM = 2" PVE
 $F = \frac{0.0184 \cdot 65^{1.85}}{2.067 \cdot 4.87} = \frac{0.0984 \cdot 2259}{34.33} = 6.5' / 100'$

2" PVC = 6' + VALVE + L + UNION + L + L + 240' + L + T
 6' + 1.2' + 7' + 2' + 7' + 7' + 240' + 7' + 1.0' = 287.2'

F = 18.7'

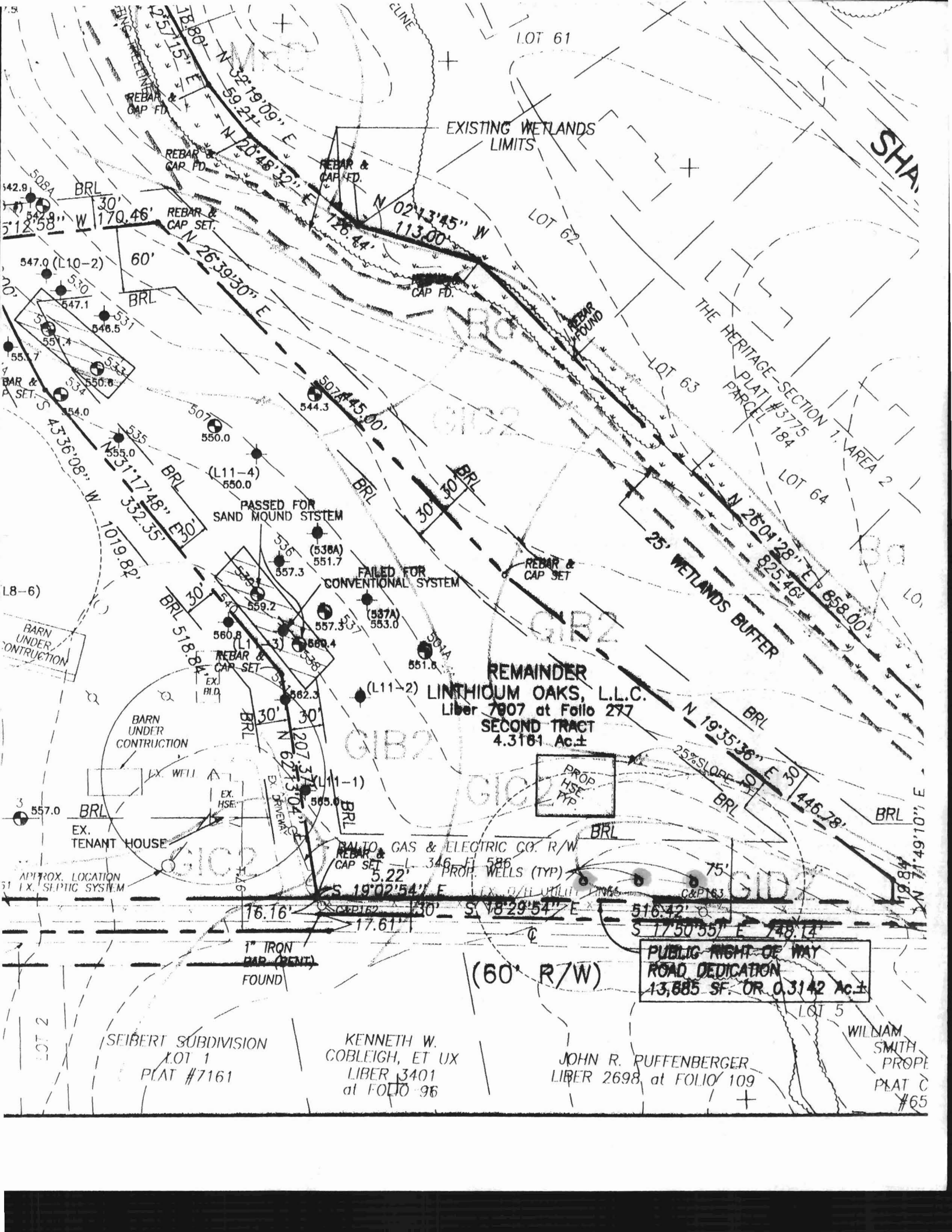
TDH = 8.7' + 2' + 18.7' = 29.4' (30')
 PUMP TO REMOVE 65 GPM @ 30' TDH
 GOULDS MODEL 3525 1 1/2" H 1/2" C 1/2"

FILE INQUIRY FORM

Property Address:

4070 Lincoln Rd
Rt

I spoke w/ the Mr and told them
to move the mound site away from
proposed driveway of 1415 453



EXISTING WETLANDS LIMITS

THE HERITAGE-SECTION 7, AREA 2
 PLAT #3775
 PARCEL 184

REMAINDER
 LINTHICUM OAKS, L.L.C.
 Liber 7007 at Folio 297
 SECOND TRACT
 4.3181 Ac±

PUBLIC RIGHT OF WAY
 ROAD DEDICATION
 13,885 SF. OR 0.3142 Ac±

SEIBERT SUBDIVISION
 LOT 1
 PLAT #7161

KENNETH W.
 COBLEIGH, ET UX
 LIBER 3401
 at FOLIO 96

JOHN R. PUFFENBERGER
 LIBER 2698 at FOLIO 109

WILLIAM
 SMITH
 PROPE
 PLAT C
 #65

PASSED FOR SAND MOUND SYSTEM

FAILED FOR CONVENTIONAL SYSTEM

BARN UNDER CONSTRUCTION

BARN UNDER CONSTRUCTION

EX. TENANT HOUSE

APPROX. LOCATION EX. SEPTIC SYSTEM

BALTO GAS & ELECTRIC CO. R/W

PROP. WELLS (TYP)

1" IRON BAR (BENT) FOUND

PROP. HSE. TYP.

C&P163

(60' R/W)

LOT 5

SHA

LOT 61

LOT 62

LOT 63

LOT 64

LOT 65

L8-6)

508A

547.0 (L10-2)

547.1 548.5

551.7 551.4 553.3

554.0 554.0

555.0 555.0

557.3 557.3

559.2 559.2

560.8 560.8

562.3 562.3

565.0 565.0

557.0 557.0

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555.0 555.0

SANITARY/ENVIRONMENTAL ENG., INC.

Consulting Engineers
1414 Washington Road
WESTMINSTER, MARYLAND 21157

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

LETTER OF TRANSMITTAL

TO HOWARD Co. HEALTH DEPT
BUREAU OF ENVIRONMENTAL HEALTH
7178 COLUMBIA GATEWAY DRIVE
COLUMBIA, MD. 21046

DATE	<u>5/31/05</u>	JOB NO.	
ATTENTION	<u>KEVIN BELL</u>		
RE:	<u>SECOND TRACT</u>		
	<u>LINTHICUM HEIGHTS</u>		
	<u>EFFLUENT PUMP</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>2</u>			<u>PRINTS - PLANS + SPECIFICATIONS</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 KEVIN - I HAVE REVIEWED THE CALCULATIONS IN
LIGHT OF BARRY GLOFFECTYS CONCERN. THE
GOULDS WE-7-H SPECIFIED SHOULD BE ADEQUATE,
BUT JUST BARELY.
TO REMOVE ANY CONCERNS I HAVE CHANGED THE
SPECIFICATIONS TO SPECIFY A GOULDS WE10-H -
1 H.P.

COPY TO File

SIGNED: Jeri Clive