

TEST DATA

NAME Altenburg Property (proposed Lot 2) FILE NO A #516476
 LOCATION Triadelphia Rd COUNTY Howard
 DATE 4/5/02
 Infiltrator 26" (Metal Infiltrator Used) GRID _____ E
 RECORDED BY Ron Pinkley (SRK) Chester Soils N
 Landscape Position (Long Side slope - Linear to Convex)

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
10	10	21" - 26"	10:30 10:40 10:50 11:03	Start	7" 6 5/16" 5 13/16" 5 2/16"	0-10" dk Brn L (3F gran) (A) 10-13" dk Brn L (3F Sdk) Ba 13-21" Str Brn CL (Mucous) Br (2F Sdk)
			11:07 11:09 11:31 11:43	Repair	7" 6 4/16" 5 11/16" 5 2/16"	28 1/16" in 36 min ≈ 20 in per (1 1/8")
			11:45 11:57	Repair	7" 6 6/16"	
TP9	(Beside I 9) (15' down slope of Infil. 9)	0-10"	dk Brn L	(3 gran - of Sdk)		
		10"-26"	Str Brn	CL (2F Sdk) a few stones		
		26"-48"	var. yel Brn - thin Brn: C2d Br, C2F gray, CL CIF Brn yel	dense (Mucous - 1c pr)		
		6'	var. Brn - red Brn mic L separate			
			Mix pale Beige + gray Brn mic L separate	(possible thin water table level?)		
		10'	var. brn - yel - gray C2d red - dk Fe & Mn Conc Clay @ 10'	SL (Muc) separate wet separate		
		18'	water level after 1 hr			
		17'6"				

**MARYLAND DEPT. OF THE ENVIRONMENT
ON-SITE SEWAGE DISPOSAL SYSTEM
SITE EVALUATION REPORT
SOIL PROFILE DESCRIPTION**

FILE NO.
MD. GRID:
TAX MAP/B/P:
SUBDIVISION:
DATE:
BY:

[illegible]

TEST DATA

NAME Altenburg Property FILE NO A#516476
 LOCATION Proposed Lot 2 (Sand Mound) COUNTY Howard
Excavations not dug per stakes DATE 1/30/02
Plastic Infiltrimeters used (24" long) GRID _____ E
 RECORDED BY SRK / RJP N
LANDSCAPE POSITION = SIDESLOPE TO SHOULDER

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
6	6	19-24"	12:31 pm	NA	7"	Bubbles displacing air
			12:42 pm	NA	7"	Bubbles stopped test begin.
			12:52 pm	10 min	6 14/16"	12 1/16" in 60 min = 80 mpi (Fails Slightly)
			1:02 pm	10 min	6 12/16"	
			1:12 pm	10 min	6 9/16"	
			1:22 pm	10 min	6 8/16"	
			1:32 pm	10 min	6 7/16"	
			1:42 pm	10 min	6 4/16"	
			1:52 pm	10 min	6 2/16"	
4	4 PRE SOAK TEST BEGIN REPOUR	19-25" BEGIN →	12:53 pm	NA		Bubbles displacing air
			12:55 pm	NA	7"	Bubbles stopped test begin
			1:05 pm	10 min	6 9/16"	
			1:15 pm	10 min	6 4/16"	
			1:25 pm	10 min	6"	
			1:36 pm	NA	7"	1" in 40 min = 40 mpi OK
			1:46 pm	10 min	6 1/16"	
			1:56 pm	10 min	6 6/16"	
			2:06 pm	10 min	6 2/16"	
			2:16 pm	10 min	6"	

CONTOUR LINEAR TO CONVEX

TEST DATA

NAME Altenberg Property (proposed lot 2) FILE NO A# 516476
 LOCATION NW Trudolph Rd COUNTY Howard
Plastic Infiltrimeters used (24" long) DATE 1/30/02
Excavations not dug per stakes GRID _____ E
 RECORDED BY R. P. Rindley (SRK) Chester Soil (Non Seasonal w/ @ 10' on higher landscape) N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
5	5	19-22" <i>by line watch</i> (12:45) (12:55) (1:05) <i>Reset</i> (1:15) (1:25)	11:05 am 11:15 am 11:25 am 11:35 am 11:45 am 11:45 pm 11:55 pm 12:05 12:16 12:30 12:35	NA 10 min 10 min 10 min 10 min NA 10 min 10 min 11 min 14 min 5 min	7" 6 3/16" 6 5/16" 6 3/16" 5 15/16" 6" 5 12/16" 5 9/16" 5 5/16" 5 7/16" 5" even	(Bubbles stopped) BEGIN TEST pass ok Test begins
				50 mpi		
3	3	14-18" <i>Repair</i>	12:03 pm 12:16 12:31 12:33 12:48 1:03 1:18 1:43	NA 13 min 15 min NA 15 min 15 min 15 min 25 min	7" 6 6/16" 5 14/16" 7" 6 7/16" 5 14/16" 5 6/16" 4 19/16"	 32 mpi OK

1/30/02 SRK + RJP

TP1 sunny/pt cloudy day - Temp in low 60's & high 50's.

0-9" Ap dk reddish brn (5YR 4/3) hL (3P-mgrn) m roots, a few gtz cobbles Moist. (mbr-mbr)

9-14" Bt₂₁ yel red (5YR 5/6) CL-hL (2P-mbr) compact (mbr)

14-28" Bt₂₂ red (2.5YR 4/6) CL (2 m⁺ sbr) few stone Moist densest layer (mbr)

28"-44" BC yel red (2.5-5YR 5/8) CL-hL (mbr) Massive (10P sbr) Moist
becoming sandier w depth

44"-56" C₁ var color Massive Sandstone

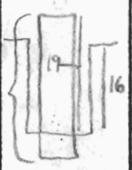
lt brn-red yel (7.5YR 6/4-6/8) L-FSL (mbr) moist (Clays about 8%
& mica gray & flake (Sands about 65-75%)
(Miscellaneous mostly, & some of foliaceous)

TEST DATA

NAME Altenburg Property FILE NO. A#516476
 LOCATION Proposed Lot 2 (Sand Mound) COUNTY Howard
1/30/02
Plastic Infiltrimeters used (24" long) GRID _____ E
 RECORDED BY SRK / RJP (Excavations not dug per stakes) N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
9	9	18-22"	10:41 am	NA	7"	Bubbles displacing air Test not begun Bubbles stopped Repour
	PRE SOAK	BEGIN →	10:52 am	NA	7"	
			11:02 am	10 min	6 2/16"	
			11:12 am	10 min	5 8/16"	
	TEST BEGIN		11:22 am	10 min	4 12/16"	
	REPOUR →		11:30 am	NA	7"	Repour
			11:40 am	10 min	6 1/16"	
			11:50 am	10 min	5 8/16"	
			12:00 pm	10 min	4 14/16" > 10 min = 16 mpi OK	
7	7	17-22"	10:48 am	NA	7"	Bubbles displacing air Bubbles stopped Repour
	PRE SOAK	BEGIN →	10:56 am	NA	7"	
			11:06 am	10 min	6 1/16"	
			11:16 am	10 min	6 7/16"	
			11:26 am	10 min	6 3/16"	
			11:36 am	10 min	6 1/16"	
	TEST BEGIN		11:46 am	10 min	5 14/16"	
	REPOUR →		11:50 am	NA	7"	Repour
			12:00 pm	10 min	6 12/16"	
			12:10 pm	10 min	6 10/16"	
			12:20 pm	10 min	6 6/16"	
			12:30 pm	10 min	6 4/16"	
			12:40 pm	10 min	5 15/16" > 12 in 50 min = 47 mpi OK	
8	8	16-21"	11:03 am	NA	7"	No bubbles begin Test
	PRE SOAK	BEGIN →	11:13 am	10 min	6 6/16"	
			11:23 am	10 min	6 1/16"	
			11:33 am	10 min	5 14/16"	
	TEST BEGIN		11:41 am	NA	7"	Repour
	REPOUR →		11:51 am	10 min	6 10/16"	
			12:01 pm	10 min	6 4/16"	
			12:11 pm	10 min	6 1/16"	
			12:21 pm	10 min	5 14/16"	
			12:31 pm	10 min	5 12/16"	
			12:41 pm	10 min	5 9/16" > 8 1/16 in 30 min = 60 mpi OK	

24
19
5



6% slope
over site

7 holes with ave in filtermeter perc rate = 46.4 mpm
MOUND DIMENSIONS OK

Core can reconfigure to 100' L. Bed 12 (for same width) $\approx 122'$ long 54

3/15/02

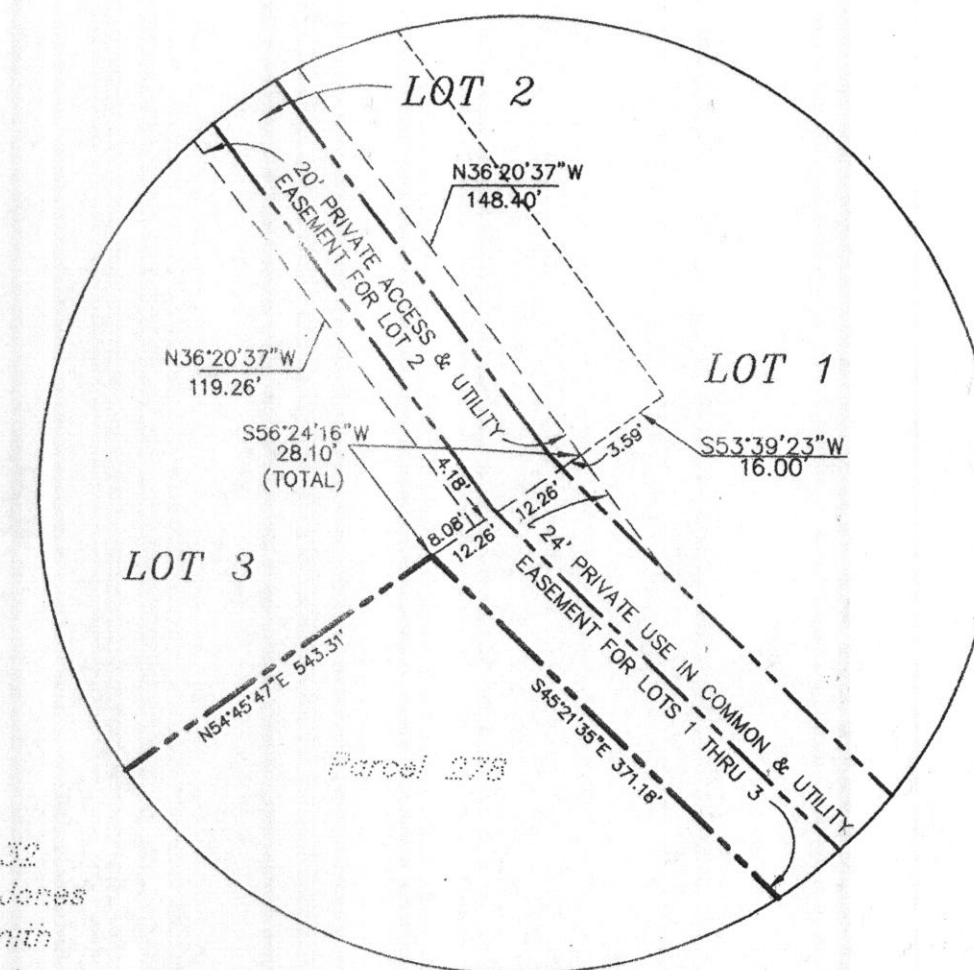
80-5 43 25 3071

Parcel 299
Joseph and Susan Cappelletti
4133/535

Parcel 300
D and Beatrice Fleegle
692/92

Parcel 313
Garry and Frances Dove
1053/140

Parcel 32
Lawrence Jones
Susan Smith
3083/628



DETAIL A
SCALE 1" = 30'

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 COMPLIED WITH.

JOHN B. MILDENBERG, SURVEYOR

Brenda G. Altenburg, OWNER

JEFFREY A. ALTENBURG, OWNER

RICHARD L. DAHLBERG, OWNER

CATHRYN H. DAHLBERG, OWNER

9/5/02

DATE

10/1/02

DATE

10/1/02

DATE

10/1/02

DATE

AREA TABULATION (THIS SHEET)

NUMBER OF BUILDABLE LOTS	3
TOTAL NUMBER OF LOTS OR PARCELS	3
AREA OF BUILDABLE LOTS	9.930 AC ±
AREA OF ROADWAY	0.054 AC ±
AREA	9.984 AC ±

PIPESTEIN FOR
Parcel 313
Garry and Frances Dove
1053/140

N 591500

E 1333100

N 592400

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N 591500

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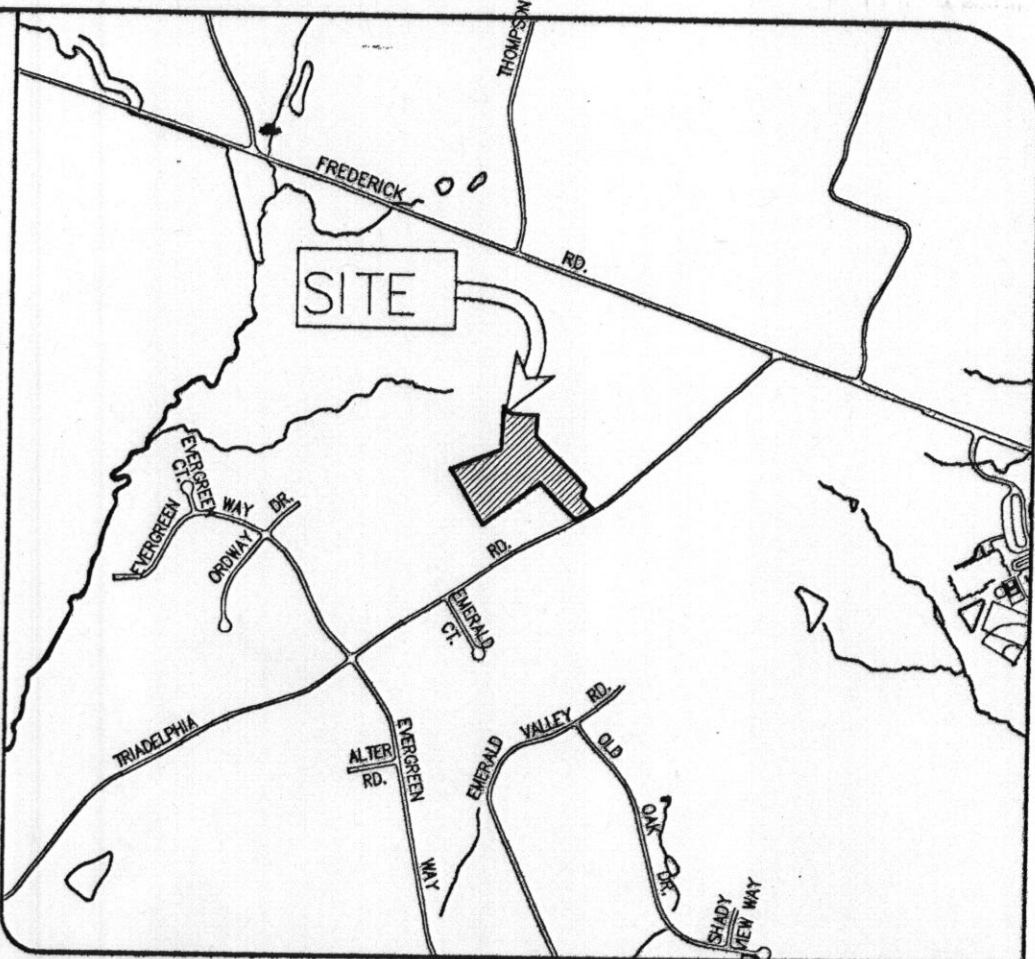
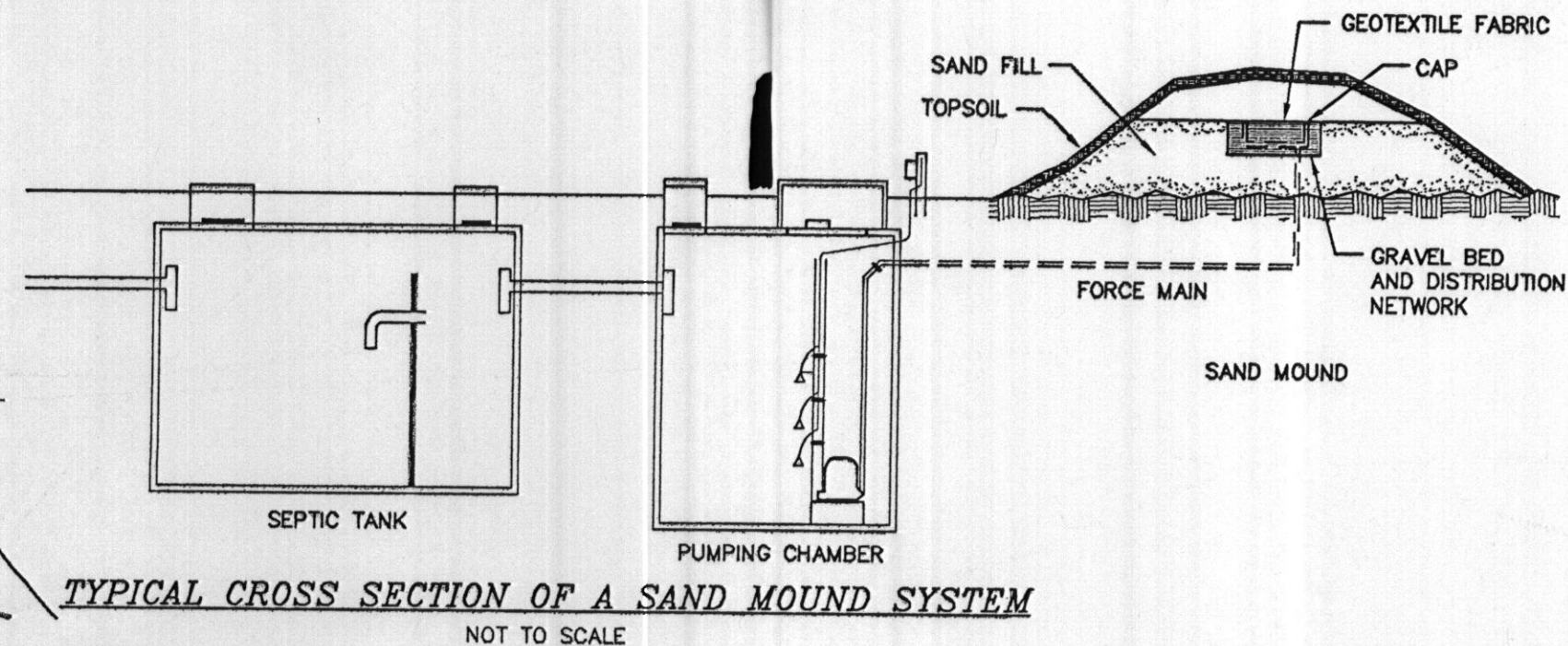
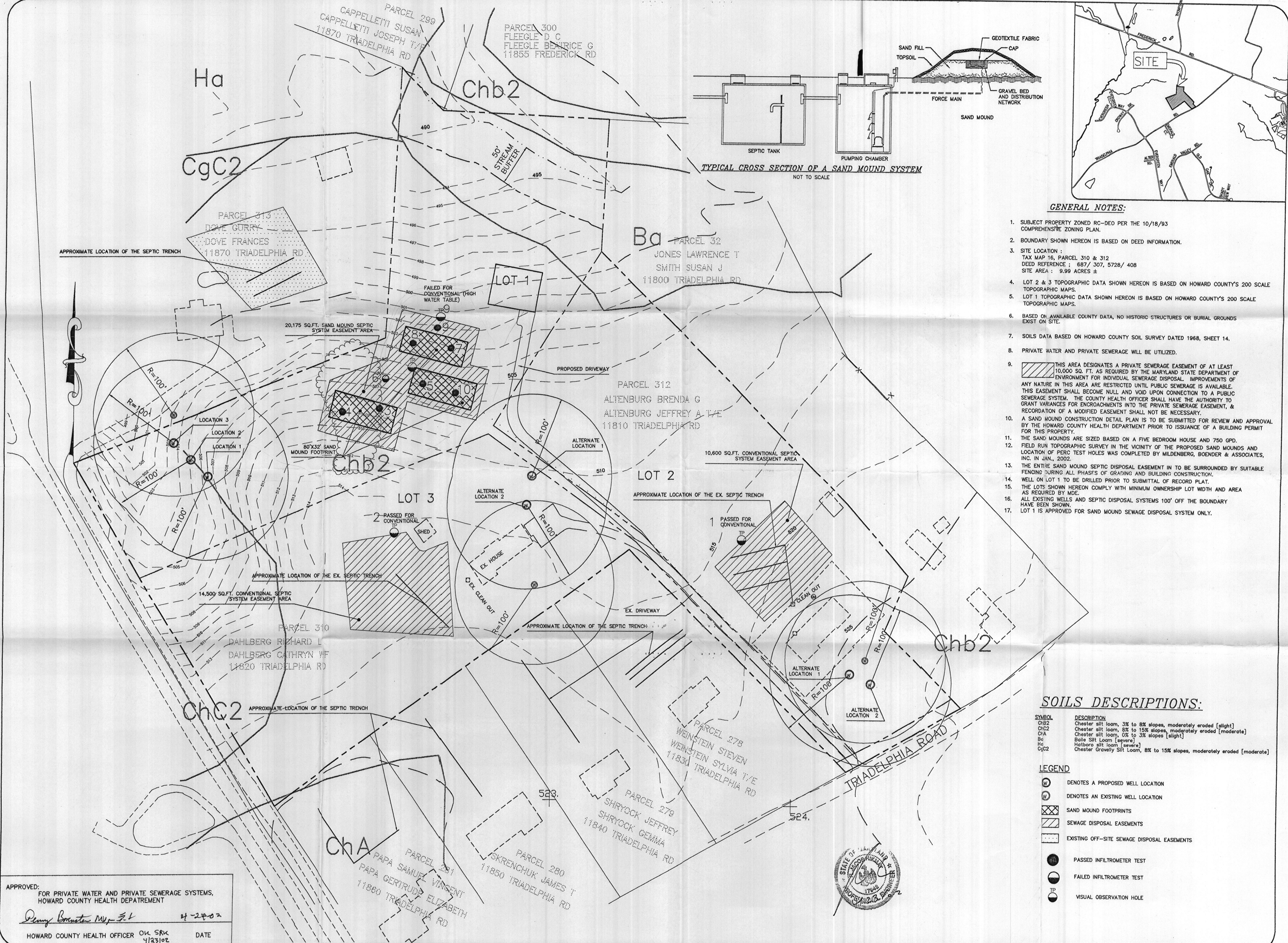
N 592400

01-0561.dwg 01/05/99-perc-sand-MARCH.DWG

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

Penny Branton M.P. 4-24-02

HOWARD COUNTY HEALTH OFFICER OK SRK 4/23/02 DATE



GENERAL NOTES:

- SUBJECT PROPERTY ZONED RC-DEO PER THE 10/18/93 COMPREHENSIVE ZONING PLAN.
- BOUNDARY SHOWN HEREON IS BASED ON DEED INFORMATION.
- SITE LOCATION :
TAX MAP 16, PARCEL 310 & 312
DEED REFERENCE : 687/ 307, 5728/ 408
SITE AREA : 9.99 ACRES ±
- LOT 2 & 3 TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON HOWARD COUNTY'S 200 SCALE TOPOGRAPHIC MAPS.
- LOT 1 TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON HOWARD COUNTY'S 200 SCALE TOPOGRAPHIC MAPS.
- BASED ON AVAILABLE COUNTY DATA, NO HISTORIC STRUCTURES OR BURIAL GROUNDS EXIST ON SITE.
- SOILS DATA BASED ON HOWARD COUNTY SOIL SURVEY DATED 1968, SHEET 14.
- PRIVATE WATER AND PRIVATE SEWERAGE WILL BE UTILIZED.
- 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. 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.
- A SAND MOUND CONSTRUCTION DETAIL PLAN IS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO ISSUANCE OF A BUILDING PERMIT FOR THIS PROPERTY.
- THE SAND MOUNDS ARE SIZED BASED ON A FIVE BEDROOM HOUSE AND 750 GPD.
- FIELD RUN TOPOGRAPHIC SURVEY IN THE VICINITY OF THE PROPOSED SAND MOUNDS AND LOCATION OF PERC TEST HOLES WAS COMPLETED BY MILDENBERG, BOENDER & ASSOCIATES, INC. IN JAN., 2002.
- THE ENTIRE SAND MOUND SEPTIC DISPOSAL EASEMENT IN TO BE SURROUNDED BY SUITABLE FENCING DURING ALL PHASES OF GRADING AND BUILDING CONSTRUCTION.
- WELL ON LOT 1 TO BE DRILLED PRIOR TO SUBMITTAL OF RECORD PLAT.
- THE LOTS SHOWN HEREON COMPLY WITH MINIMUM OWNERSHIP LOT WIDTH AND AREA AS REQUIRED BY MDE.
- ALL EXISTING WELLS AND SEPTIC DISPOSAL SYSTEMS 100' OFF THE BOUNDARY HAVE BEEN SHOWN.
- LOT 1 IS APPROVED FOR SAND MOUND SEWAGE DISPOSAL SYSTEM ONLY.

SOILS DESCRIPTIONS:

SYMBOL	DESCRIPTION
Chb2	Chester silt loam, 3% to 8% slopes, moderately eroded [slight]
Chc2	Chester silt loam, 8% to 15% slopes, moderately eroded [moderate]
ChA	Chester silt loam, 0% to 3% slopes [slight]
Ba	Baile Silt Loam [severe]
He	Holboro silt loam [severe]
Cgc2	Chester Gravelly Silt Loam, 8% to 15% slopes, moderately eroded [moderate]

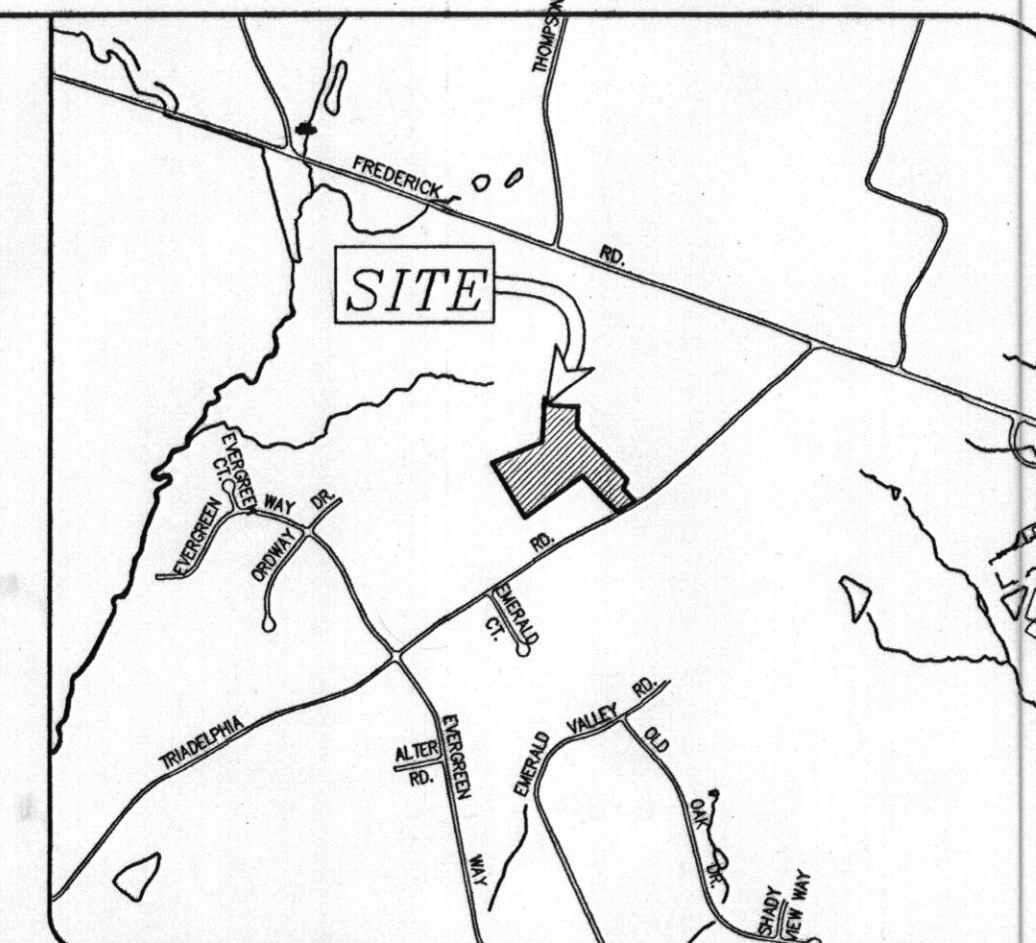
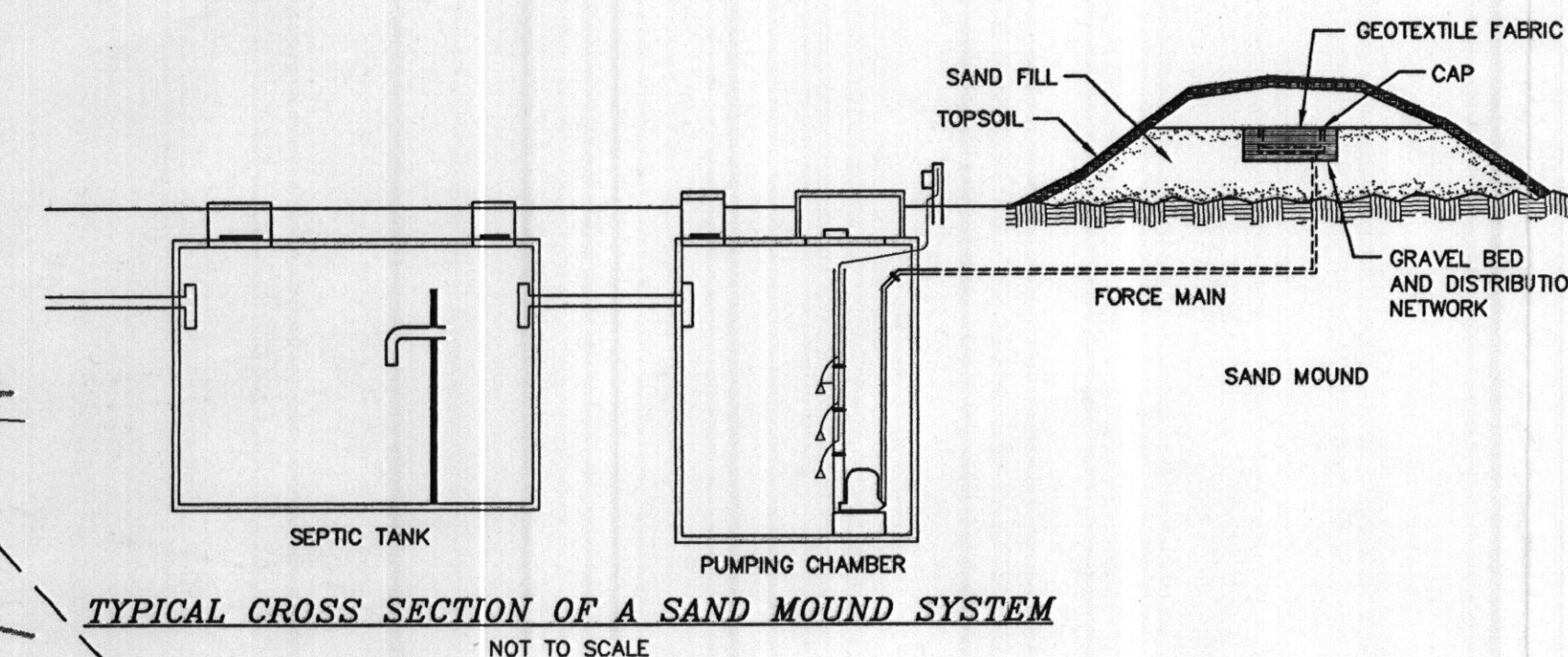
LEGEND

- W DENOTES A PROPOSED WELL LOCATION
- W DENOTES AN EXISTING WELL LOCATION
- SAND MOUND FOOTPRINTS
- SEWAGE DISPOSAL EASEMENTS
- EXISTING OFF-SITE SEWAGE DISPOSAL EASEMENTS
- PASSED INFILTRMETER TEST
- FAILED INFILTRMETER TEST
- VISUAL OBSERVATION HOLE

MILDENBERG, BOENDER & ASSOC., INC.
Engineers Planners Surveyors
5072 Dorsey Hall Drive, Suite 202, Ellicott City, Maryland 21042
(410) 987-0236 Fax: (301) 621-5521 Wash. (410) 997-0298 Fax

ALLENBURG PROPERTY
TAX MAP 16, PARCEL 312 & 310
ELECTION DISTRICT 3
HOWARD COUNTY
PERCOLATION CERTIFICATION PLAN

Project	date	Project	date
01-035	APRIL 2002	01-035	APRIL 2002
illustration	engineering	illustration	engineering
SAA	SAA	SAA	SAA
scale	scale	scale	scale
1"=50'	1"=50'	1"=50'	1"=50'
revisions	revisions	revisions	revisions



GENERAL NOTES.

1. SUBJECT PROPERTY ZONED RC-DEO PER THE 10/18/93 COMPREHENSIVE ZONING PLAN.
2. BOUNDARY SHOWN HEREON IS BASED ON DEED INFORMATION.
3. SITE LOCATION :
TAX MAP 16, PARCEL 310 & 312
DEED REFERENCE : 687/ 307, 572B/ 408
SITE AREA : 9.99 ACRES ±
4. TOPOGRAPHIC DATA SHOWN HEREON IS BASED ON HOWARD COUNTY'S 200 SCALE TOPOGRAPHIC MAPS.
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 14.
7. PRIVATE WATER AND PRIVATE SEWERAGE WILL BE UTILIZED.
8.  THIS AREA, 18,905 sq.ft. 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. 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.
9. A SAND MOUND CONSTRUCTION DETAIL PLAN IS TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO ISSUANCE OF A BUILDING PERMIT FOR THIS PROPERTY.
10. THE SAND MOUNDS ARE SIZED BASED ON A FIVE BEDROOM HOUSE AND 750 GPD. *600*
11. FIELD RUN TOPOGRAPHIC SURVEY IN THE VICINITY OF THE PROPOSED SAND MOUNDS AND LOCATION OF PERC TEST HOLES WAS COMPLETED BY MILDENBERG, BOENDER & ASSOCIATES, INC. IN JAN., 2002.

① Needs min. lot width @ 150' @ SDA for lot #1-

HOLES NOT DUG PER
STAKES

SOILS DESCRIPTIONS:

<u>SYMBOL</u>	<u>DESCRIPTION</u>
ChB2	Chester silt loam, 3% to 8% slopes, moderately eroded [slight]
ChC2	Chester silt loam, 8% to 15% slopes, moderately eroded [moderate]
ChA	Chester silt loam, 0% to 3% slopes [slight]
Ba	Baile Silt Loam [severe]
Ha	Hatboro silt loam [severe]
CqC2	Chester Gravely Silt Loam, 8% to 15% slopes, moderately eroded [moderate]

LEGEND

● = Likely location of Actual Excavation

-  = DENOTES A PROPOSED WELL LOCATION
 = DENOTES A PROPOSED WELL LOCATION
 = DENOTES A PROPOSED PERK HOLE OR BORING
 PROPOSED SAND MOUND AREAS
 PROPOSED SAND MOUND EASEMENT
 APPROXIMATE LOCATION OF EXISTING SEPTIC EASEMENT

