



Howard County  
Health Department

# APPLICATION

## FOR PERCOLATION TESTING AND SITE EVALUATION

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

APP 523064

AGENCY REVIEW: \_\_\_\_\_

DATE 8-3-05

DO NOT WRITE ABOVE THIS LINE

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S) TO:

CHECK AS NEEDED:

- CONSTRUCT NEW SEPTIC SYSTEM(S)
- REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- NEW STRUCTURE(S)
- ADDITION TO AN EXISTING STRUCTURE
- REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- CREATE NEW LOT(S)
- BUILD ON AN EXISTING LOT IN A SUBDIVISION
- BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- YES
- NO

THE TYPE OF STRUCTURE IS:

- RESIDENTIAL WITH unknown 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) Natalie Ziegler & John Zirschky

DAYTIME PHONE 410-740-6880 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 11352 Homewood Road Ellicott City, MD 21042  
STREET CITY/TOWN STATE ZIP

APPLICANT Benchmark Engineering, Inc - John Carney

DAYTIME PHONE 410 465 6105 CELL \_\_\_\_\_ FAX \_\_\_\_\_

MAILING ADDRESS 8480 Baltimore National Pk, Suite 418, Ellicott City, MD 21043  
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION  
SUBDIVISION/PROPERTY NAME Carroll / Ziegler Parcel LOT NO. 2

PROPERTY ADDRESS Terminus of Dorsch Farm Road Ellicott City  
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 23 GRID 10 PARCEL(S) 130 PROPOSED LOT SIZE 1Ac

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.

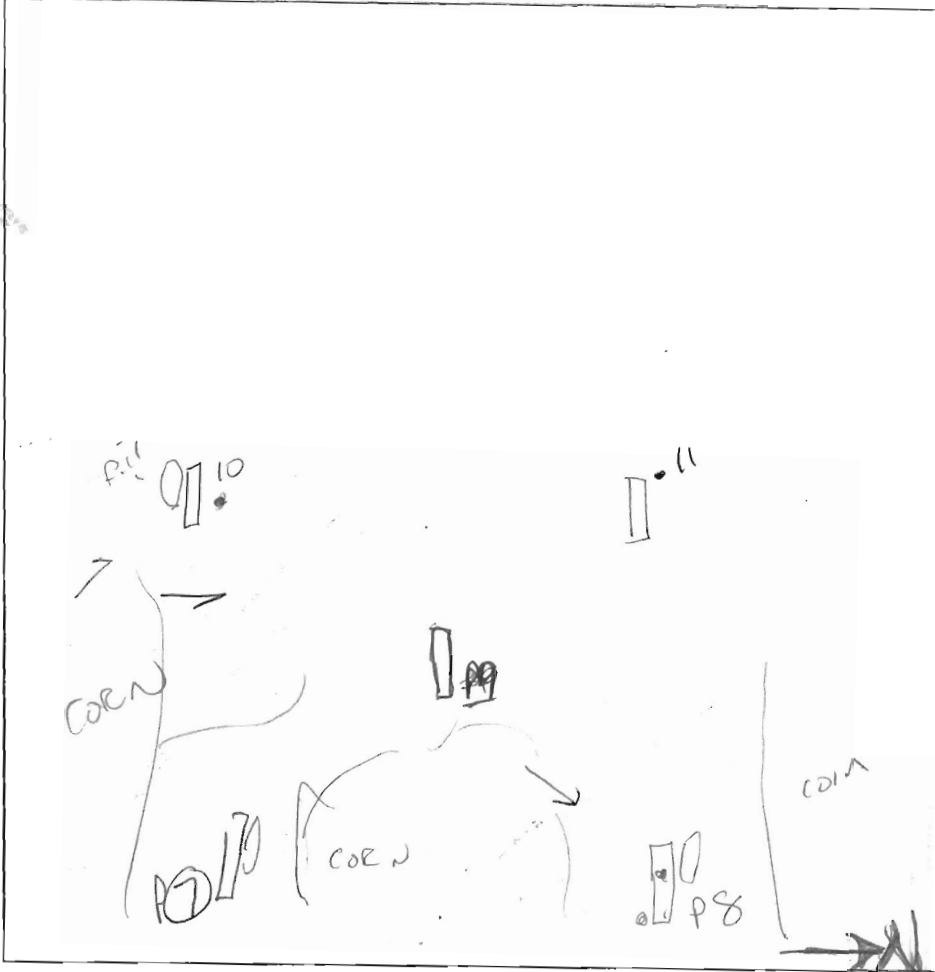
TEST RESULTS WILL BE MAILED TO APPLICANT. John Carney  
SIGNATURE OF APPLICANT

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

⑦  
 y-b fillw  
 10-15%  
 quartz  
 gravels +  
 frags  
 2 1/2  
 o-b s:cl  
 ↓  
 scl  
 4  
 y-b  
 scl → sl  
 w/ 15%  
 mix of  
 gravels  
 frags +  
 cobbles  
 10 y-b  
 5' 50%  
 ↓ 15 frags  
 13

⑧  
 brown loam  
 1  
 o-b  
 s:cl /  
 scl  
 3 1/2  
 TRANSMISSION  
 4  
 y-b  
 micaceous  
 + white  
 sandy  
 loam  
 5-10%  
 gravels +  
 cherty frags  
 7  
 y-b-w  
 sl  
 15 15% frags  
 12

⑨  
 brown  
 till  
 white  
 cobbles + frags  
 2 1/2  
 o-b  
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 4  
 y-brown  
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 + 5%  
 gravels +  
 frags  
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 Black  
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 11



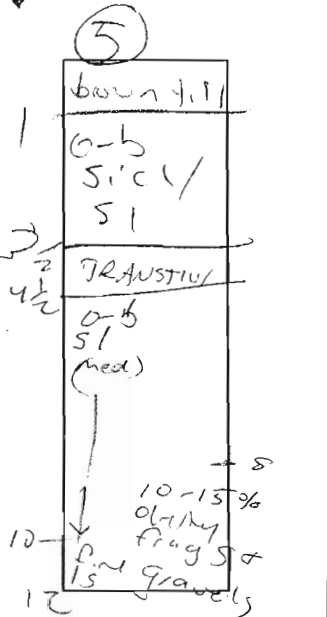
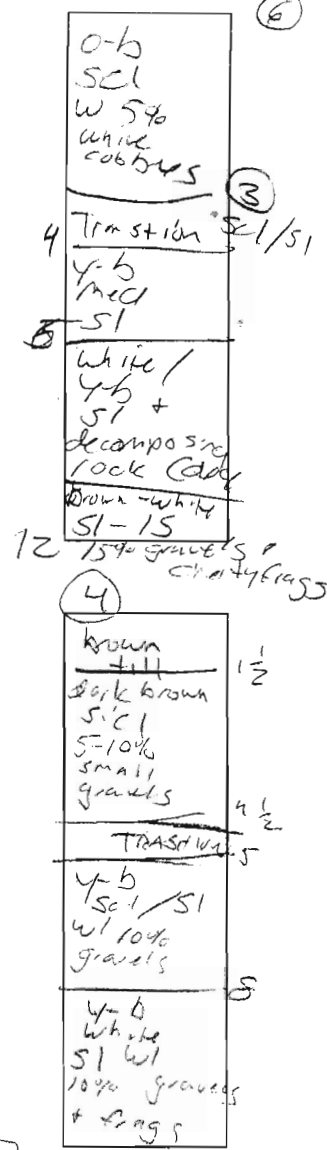
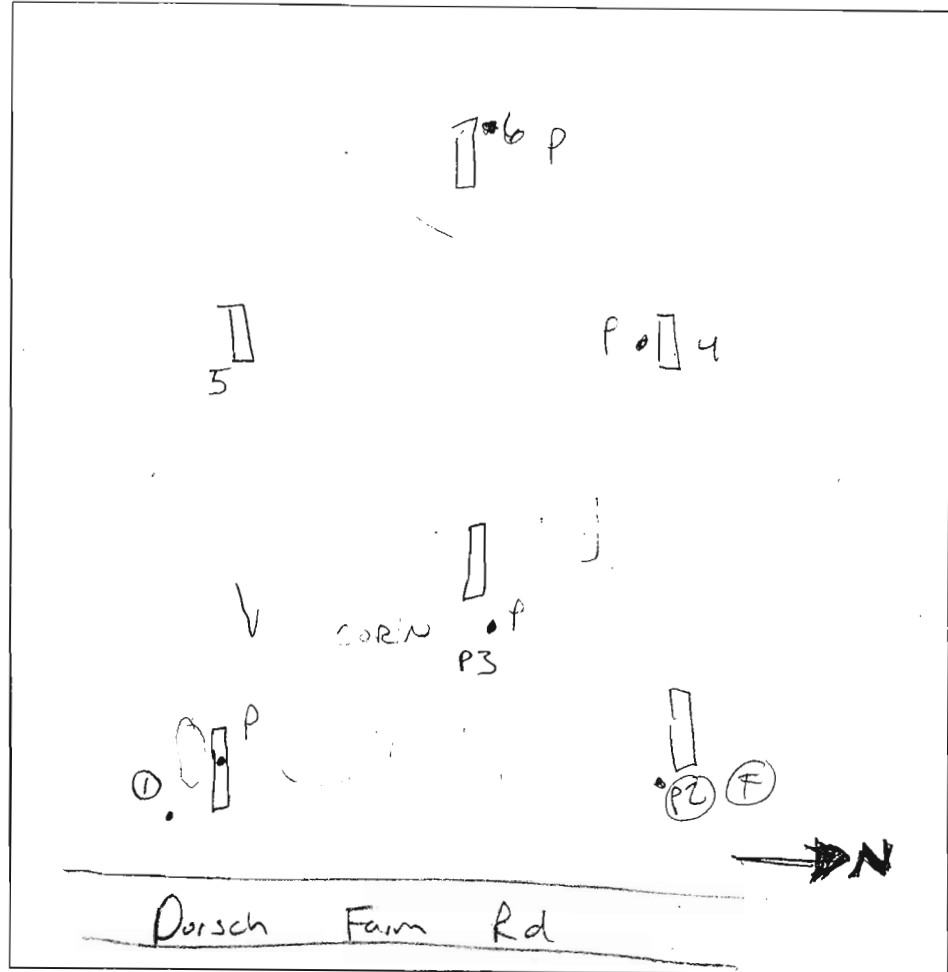
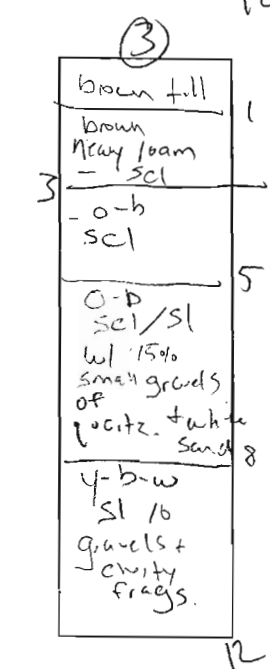
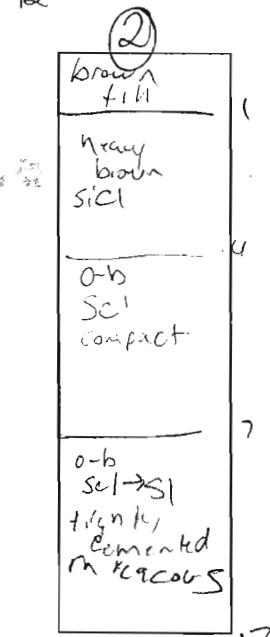
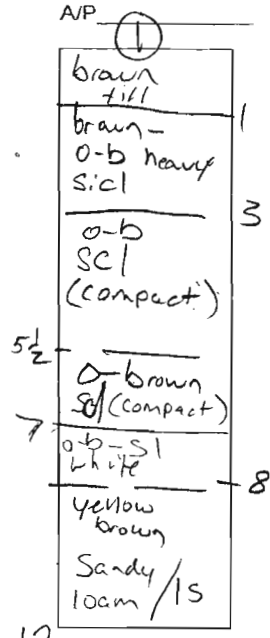
⑪  
 brown loam  
 1  
 o-b  
 s:cl  
 w/  
 20-25%  
 frags  
 3  
 50% coarse  
 scl  
 5  
 75%  
 white  
 cobbles  
 gravel  
 frags  
 4-b  
 sl/15  
 mix  
 10  
 Rock  
 vein

⑩  
 brown  
 till  
 o-b  
 s:cl  
 scl  
 ↓  
 sl  
 15-20%  
 frags +  
 gravel  
 6  
 4b  
 sl  
 w/  
 25%  
 frags  
 12  
 HAD  
 refusal  
 edge of  
 SDA to end  
 outcrop

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
8/18/05	7	4 1/2 / 13	9:54	9:58	10:04	6	P
	8	5 / 12	9:52	9:55	10:01	6	P
	9	4 / 12	10:03	10:06	10:11	5	P
	10	12	VISUAL	ROCK	50% west side		F
	11	5 / 9		Visual	fail		F

⑪ Refusal on shell @ 4'  
 REMARKS hole 10 refusal on shell, running into Rock Vein.  
 SANITARIAN Ray BACKHOE Mike Smeaton OTHERS owner/engineer  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

He done



DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
8/18	P1	6/12	8:54	slow			
	P3	5.5/12	8:56	9:10	9:24	14	P
	2	7/12	9:03	slow			F
	4	5/12	9:24	9:32	9:42	10	P
	5	5/12	9:40	9:43	9:48	5	P
	1	7/12	9:24	9:36	9:50	14	P
	6	5/12	9:29	9:31	9:34	2	P

REMARKS Dorsch Farm / clusters of loam  
 SANITARIAN PAY BACKHOE Mike Johnson OTHERS Property Owners  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

468.

EX. 24' PRIVATE INGRESS AND EGRESS EASEMENT FOR THE BENEFIT OF FOX'S FARM LOT 1, LOT 2, AND PRESERVATION PARCEL 'A' AND PARCEL 130 RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND. LIBER 3281 AT FOLIO 0041

**NON-BUILDABLE PRESERVATION PARCEL 'O'**

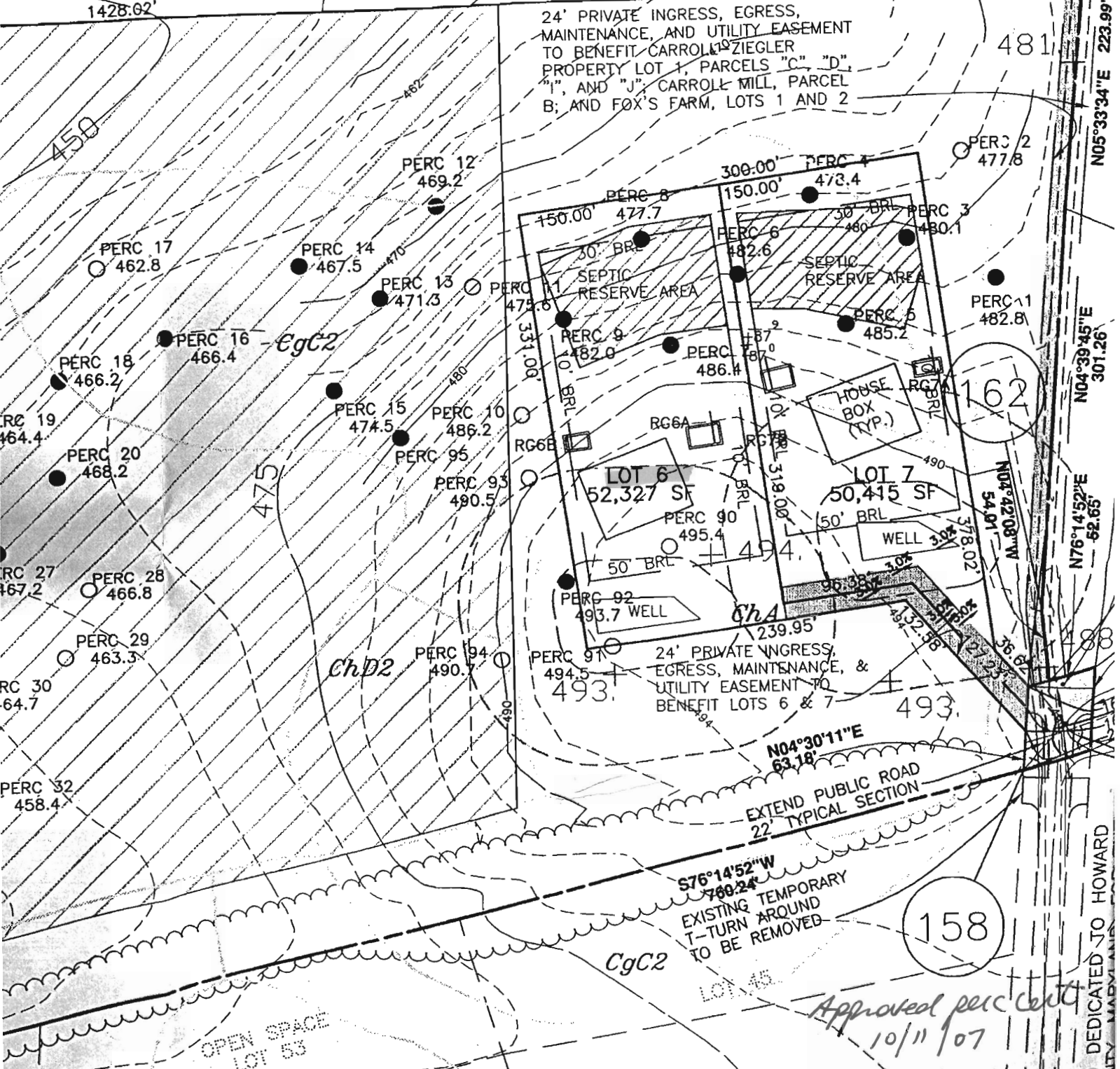
HOWARD COUNTY AGRICULTURAL LAND PRESERVATION PROGRAM AS EASEMENT HOLDER OF A HOWARD COUNTY AGRICULTURAL LAND PRESERVATION EASEMENT.

PARCEL TO BE PRIVATELY OWNED  
2.66 AC.± (total), 1.91 AC.± (this sheet) **ChA**  
**N89°30'16"E 1174.83'**

107

EXISTING DRIVEWAY

24' PRIVATE INGRESS, EGRESS, MAINTENANCE, AND UTILITY EASEMENT TO BENEFIT CARROLL ZIEGLER PROPERTY LOT 1, PARCELS "C", "D", "I", AND "J", CARROLL MILL, PARCEL B; AND FOX'S FARM, LOTS 1 AND 2



481

162

158

N05°33'34"E 223.99'

N04°39'45"E 301.26'

N76°14'52"E 52.65'

D DEDICATED TO HOWARD COUNTY, MARYLAND

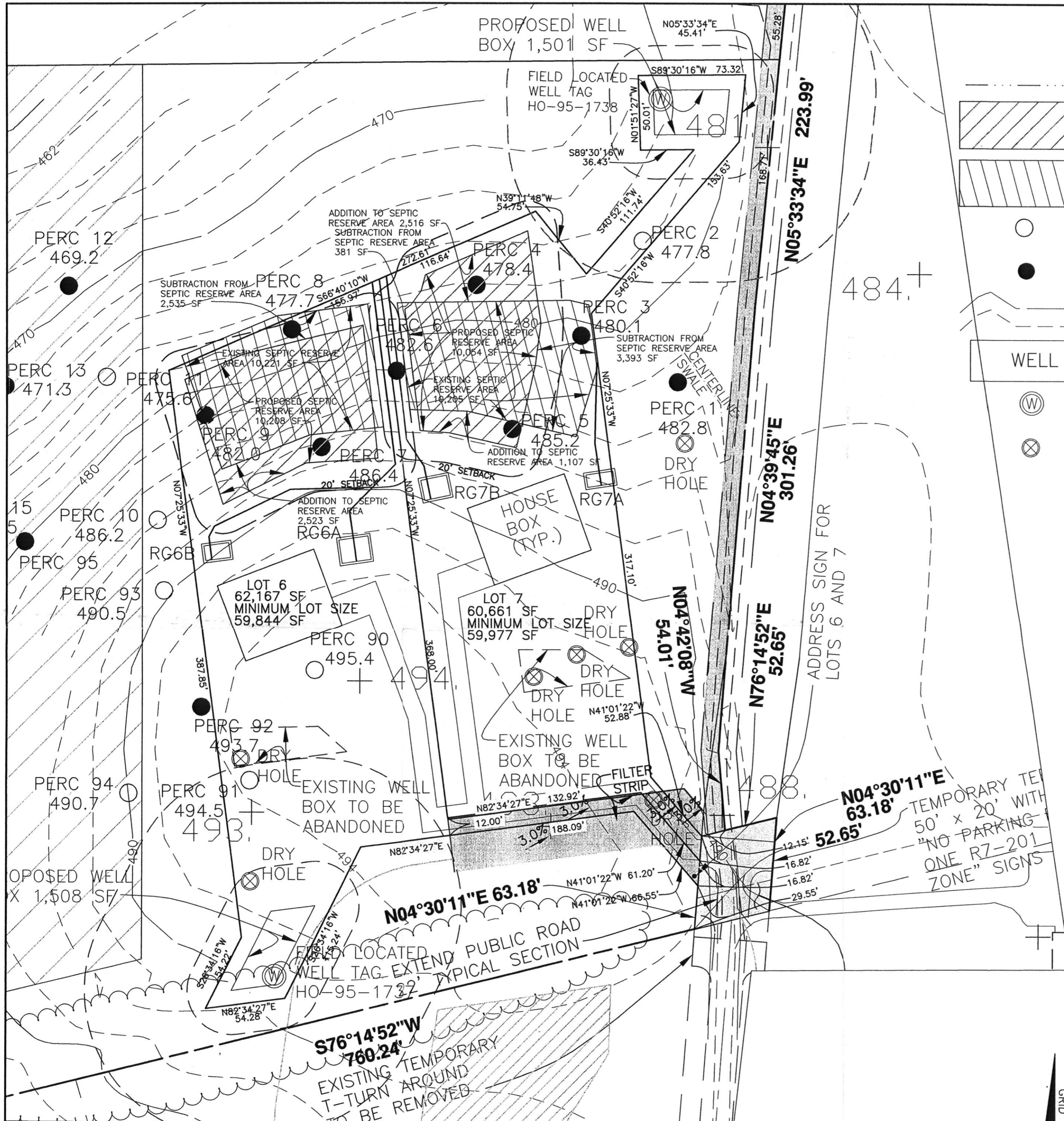
N04°30'11"E 63.18'

EXTEND PUBLIC ROAD 22' TYPICAL SECTION


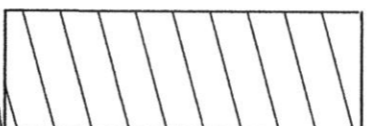



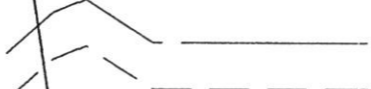



S76°14'52"W 780.24'  
EXISTING TEMPORARY T-TURN AROUND TO BE REMOVED

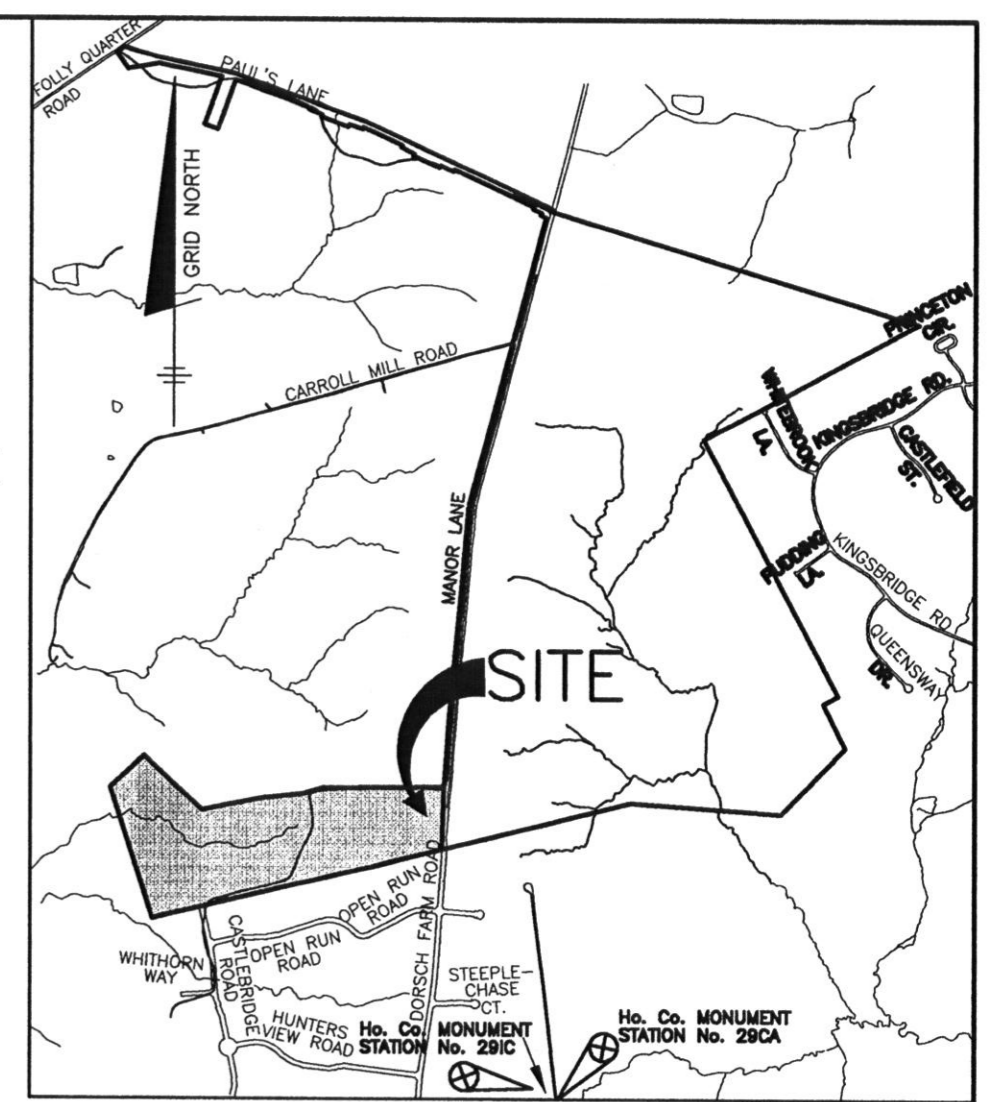
Approved perc cert  
10/11/07

OPEN SPACE LOT 53



**LEGEND**

-  STREAM
-  PROPOSED SEPTIC EASEMENT
-  EXISTING SEPTIC EASE
-  FAILED PERCOLATION TEST LOCATION
-  PASSED PERCOLATION TEST LOCATION
-  EXISTING CONTOURS
-  WELL ENVELOPE
-  FIELD LOCATED WELL
-  DRY HOLE



**VICINITY MAP**  
SCALE: 1" = 2000'

**NOTES:**

1. THE LOTS SHOWN HEREON ARE TO BE RECORDED ON THE PLAT FOR CARROLL-ZIEGLER PROPERTY. REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS AND ALL EASEMENTS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQ. FT. AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER 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 ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN. RECORDATION OF A MODIFIED EASEMENT PLAT SHALL NOT BE NECESSARY.
3. SEDIMENT AND EROSION CONTROLS WILL HAVE TO BE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT FOR HOUSE CONSTRUCTION AND GRADING.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND HAS BEEN FIELD VERIFIED BY BENCHMARK ENGINEERING, INC., ON 6/02 AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
5. EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS.
9. SEPTIC TANKS FOR THESE LOTS TO BE 2,000 GALLONS.
10. THE EXISTING WELLS SHOWN ON THIS PLAN, HO-95-1737 AND HO-95-1738, HAVE BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.
11. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
12. THE PURPOSE FOR THIS PERCOLATION CERTIFICATION PLAN IS TO REVISE THE WELL BOXES AND LOT CONFIGURATION TO FIT THE APPROVED WELL SITES DUE TO DRY HOLES.
13. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

NO.	DATE	REVISION

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 418  
ELLICOTT CITY, MARYLAND 21043  
PHONE: 410-465-6105 ▲ FAX: 410-465-6644  
EMAIL: [benchmrk@cais.com](mailto:benchmrk@cais.com)

OWNER/BUILDER:		PROJECT: <b>CARROLL-ZIEGLER PROPERTY LOTS 6 AND 7</b>	
NATALIE ZIEGLER ET AL 4288 MANOR LANE ELLICOTT CITY, MARYLAND 21042 410-740-6880		LOCATION: MANOR LANE ELLICOTT CITY, MD 21042 TAX MAP No. 23 - BLOCK No. 10 - PARCEL No. 130 3RD ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	
DESIGN: JMC		TITLE: <b>REVISED PERCOLATION CERTIFICATION PLAN</b>	
DRAFT: JMC		HOUSE TYPE: <b>GENERIC BOX</b>	
DATE: OCTOBER, 2009	PROJECT NO. 2061	SCALE: 1" = 50'	DRAWING 1 OF 1

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF KNOWLEDGE AND BELIEF.  
*John M. Carney* 11/9/09  
PLAN PREPARER  
JOHN M. CARNEY FOR BENCHMARK ENGINEERING, INC.

APPROVED:  
FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
HOWARD COUNTY HEALTH DEPARTMENT  
*B. Wilson for Peter Brilenson* 11/30/09  
COUNTY HEALTH OFFICER DATE

