

APPLICATION

PERCOLATION TESTING

A 515042

P _____

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

DISTRICT _____

DATE 4-13-01

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 Natalie Ziegler

ADDRESS 11352 Homewood Rd. PHONE 410 740-6880

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Benedict Farm LOT NO. _____

ROAD AND DESCRIPTION Rt 108 + Homewood Rd.

TAX MAP 29 PARCEL # 93/229

SIZE OF LOT 3.50 acres +/- TYPE BLDG. _____
(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.

Natalie Ziegler
(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

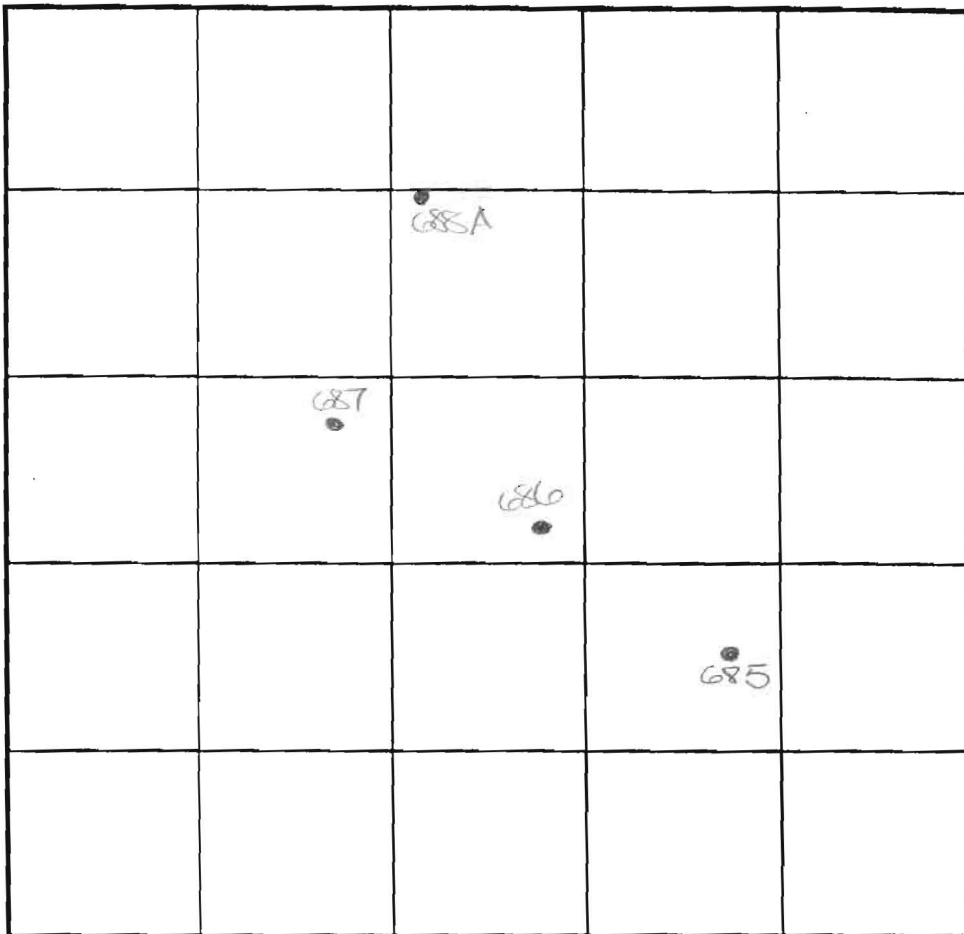
COUNTY #

SOIL PROFILE

0' topsoil
 4' org brn sil loam
 4' org brn sil loam
 11' water
 12' water

0' topsoil
 1' org brn sil loam
 11' med brn sil mica loam
 14' water

0' topsoil
 1' red org brn sil loam
 1' org brn sil mica loam
 10% rock



SOIL PROFILE

0' topsoil
 1' red org brn sil loam
 3.5' 4' loam
 4' org brn sil mica loam
 20%+ rock
 12' refusal

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6-13-01	6856	4.9'S	1:26	1:33	1:33	1:42	9
		14.0'D	Water - see profile				OK
	687	4.5'S	1:34	1:36.3	1:36.3	1:39.3	3
		14.0'D	Visual - see profile				OK
	688	4.5'S	1:39.3	1:44	1:44	1:50.3	7
		12.0'D	Refusal - see profile				OK
	685	12.0'D	Water - see profile				FAIL

REMARKS

TYPE OF SOIL _____ DUE TO DROUGHT CONDITIONS,
 TESTED BY DKC APPROVABLE HOLES MUST HAVE 8
 TRENCH DESIGN DATA: AV GROUNDWATER TO BOTTOM OF
 INLET DEPTH _____ PROPOSED SEPTIC SYSTEM

PRESENT M. Johnson & crew
 TRENCH WIDTH _____
 FT/BEDROOM _____

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PROPERTY OWNER _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Benedict Farm LOT NO. _____

ROAD AND DESCRIPTION _____

TAX MAP _____ PARCEL # _____

SIZE OF LOT _____ TYPE BLDG. _____
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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(SIGNATURE OF APPLICANT)

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

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0' 480
 med brn
 orge
 sacl/m

0' 2"
 tan beige
 sa lm
 10%
 frags

13' 3"
 481

brn orge
 tan
 sacl/m

4' 2"
 tan
 white
 beige
 sa lm
 10-15%
 frags

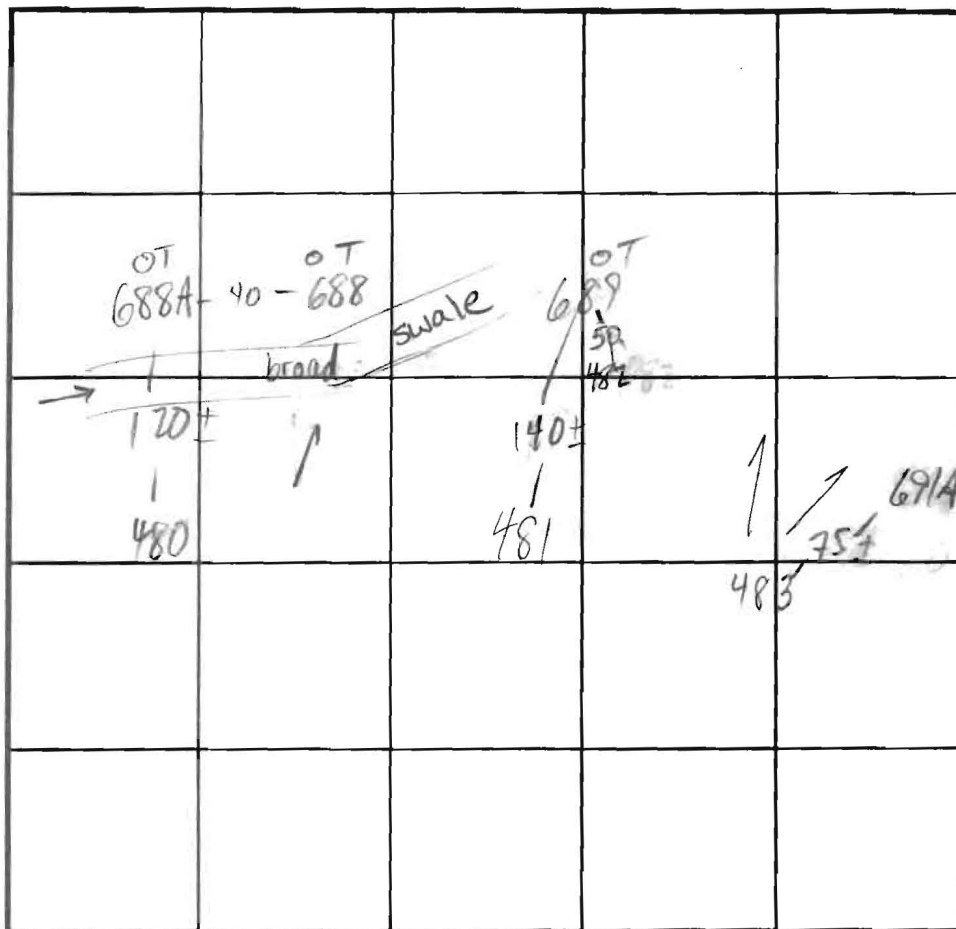
13' 7"
 483

orge
 brn si
 cl/m

6'
 red cl/m

7' 2"
 beige tan
 it. brn
 heavy loam
 10%
 frags

13' 7"
 483



SOIL PROFILE

0' 482
 red
 orge
 brn
 cl/m

tan
 sa lm
 10%
 frags

13'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
11/14/07	480	5' 9" / 13 3/4"	2:23	2:26	2:26	2:34	8	OK
	481	5' 3" / 13 1/2"	2:41	2:44	2:44	2:53	9	OK
	483	6 1/2" / 13 1/2"	3:18	3:25	3:24	slow		FAIL
	482	5 1/2" / 13"	3:39	3:43	3:43	3:55	12	OK

REMARKS ALL HOLES PER PLAN

TYPE OF SOIL _____

TESTED BY Mark RIFKIN ALSO PRESENT Chuck Crovo
 Mike J. + crew

TRENCH DESIGN DATA. AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

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ADDRESS 11352 Homewood Rd. PHONE 410 740-6880

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Benedict Farm LOT NO. _____

ROAD AND DESCRIPTION Rt 108 + Homewood Rd.

TAX MAP 29 PARCEL # 93/229

SIZE OF LOT 3/4 acres +/- TYPE BLDG. _____
(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. Natalie Ziegler
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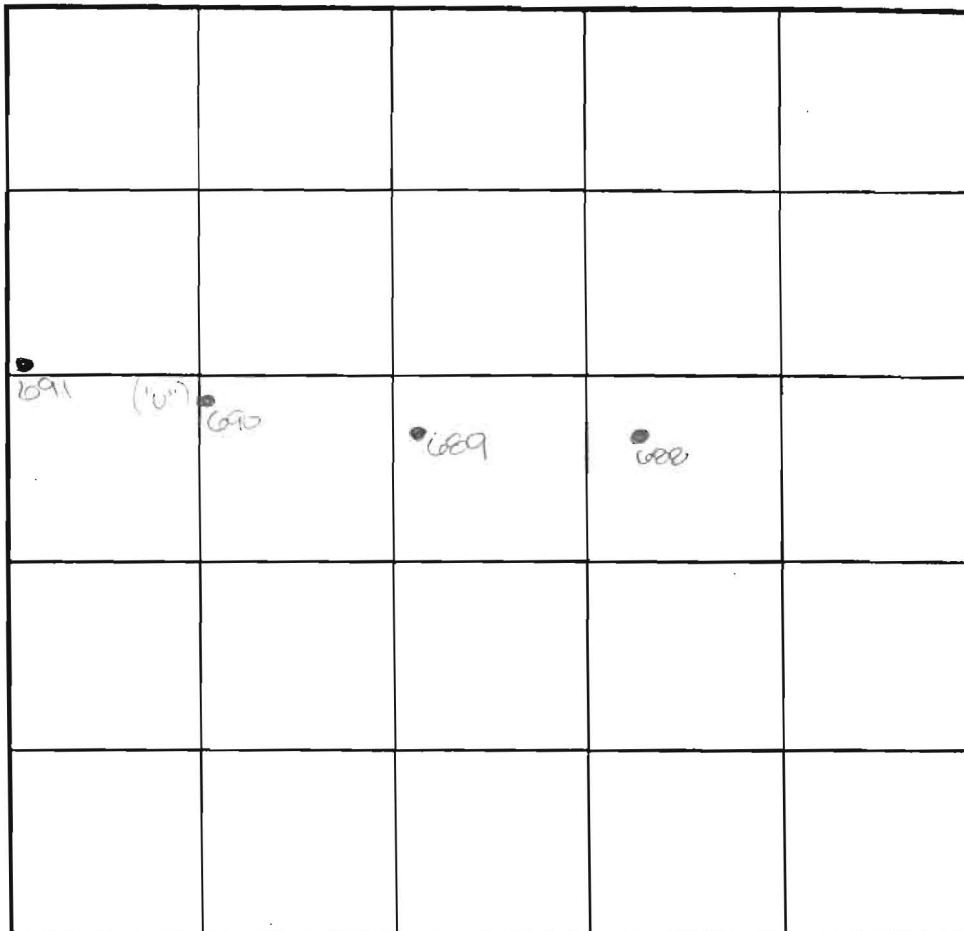
SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0' ~~688~~
 6' top soil
 4' org brn silty Lm
 org brn silty mica Lm
 15%+ rock



SOIL PROFILE

0' ~~691~~
 1' top soil
 4' dbll org brn silty Lm
 4.5' H to med brn silty mica Lm
 20% rock

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

689
 4' top soil
 red org brn silty Lm
 44' org brn silty mica Lm
 0' cave in water

690
 1' top soil
 4' red brn silty Lm
 4' org brn silty mica Lm
 20%+ rock

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
6-11-01	688	3.5' S	1:08	1:15	1:15	1:23	8
		13.0' D	Visual	-see	profile		OK
	689	5.0' S	1:11	1:35	1:35	slow	FAIL
		13.0' D	Water	-see	profile		FAIL
	690	4.5' S	2:25 ₂	2:28	2:28	2:32	4
		13.4" D	Visual	-see	profile		OK
	691	5.0' S	2:30 ₃	2:36 ₃	2:36 ₂	2:47	11
		13.5' D	Visual	-see	profile		OK

REMARKS _____

TYPE OF SOIL _____ DUE TO DROUGHT CONDITIONS, APPROVABLE HOLES MUST HAVE 8 FEET FROM OBSERVED GROUNDWATER TO BOTTOM OF PROPOSED SEPTIC SYSTEM

TESTED BY DKC

TRENCH DESIGN DATA. AV _____

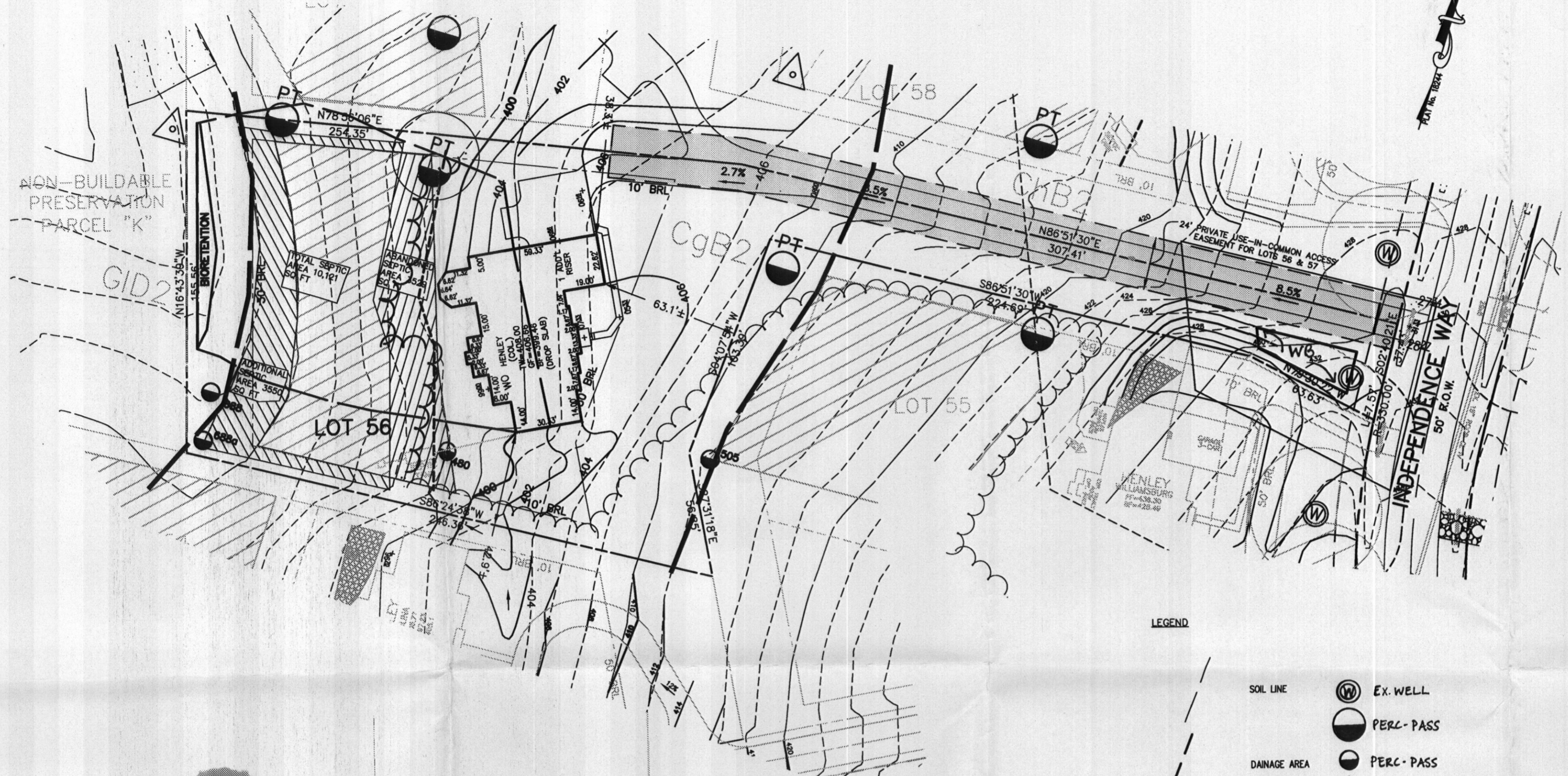
INLET DEPTH _____

PRESENT M. Johnson & crew
Owners

TRENCH WIDTH _____

FT/BEDROOM _____

13.4"



- GENERAL NOTES:**
1. THE LOT SHOWN HEREON WAS RECORDED ON MAY 2, 2006 AS PLAT NUMBER 18244. REFER TO THIS PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND BUILDING RESTRICTIONS.
 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 SEWAGE 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 SEWER 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. EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF PRECONSTRUCTION INSPECTION.
 4. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
 5. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD COUNTY DEPARTMENT OF THE ENVIRONMENT UNDER F-05-069 AND GP-07-067 AND SHALL COMPLY WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
 6. STORMWATER MANAGEMENT FOR THIS LOT AS SHOWN.
 7. THE EXISTING WELL (TAG NO. H0-95-0137) SHOWN ON THIS PLAN HAS BEEN FIELD LOCATED BY FISHER, COLLINS, & CARTER, INC. AND IS ACCURATELY SHOWN.
 8. TOPOGRAPHIC INFORMATION ESTABLISHED AT TWO FOOT INTERVALS BASED ON AERIAL TOPOGRAPHY PREPARED BY ZDI LLC, DATED APRIL 2001 AND SUPPLEMENTED BY FIELD RUN TOPOGRAPHY PREPARED BY FISHER, COLLINS & CARTER, INC.
- SWM CONSTRUCTION AND MAINTENANCE NOTES:**
- 1) FINAL GRADING FOR LANDSCAPE INFILTRATION SHOULD NOT TAKE PLACE UNTIL SURROUNDING SITE IS STABILIZED.
 - 2) SUB SOIL SHALL NOT BE COMPACTED. EXCAVATION SHOULD BE CONDUCTED IN DRY CONDITIONS WITH EQUIPMENT LOCATED OUTSIDE OF THE PRACTICE TO MINIMIZE BOTTOM AND SIDEWALL COMPACTION.
 - 3) SEE APPENDIX B.4 OF THE MARYLAND STORMWATER MANAGEMENT DESIGN MANUAL FOR SAND, GRAVEL AND PLANTING MEDIA.
 - 4) INSPECTION SHALL BE MADE AT THE FOLLOWING STAGES:
DURING EXCAVATION TO SUBGRADE DURING PLACEMENT OF BACKFILL AND OBSERVATION WELL
DURING CONSTRUCTION FOR APPURTENANT CONVEYANCE STRUCTURES
UPON COMPLETION OF FINAL GRADING AND ESTABLISHMENT OF PERMANENT STABILIZATION
 - 5) PRIVATELY OWNED PRACTICES SHALL HAVE A MAINTENANCE OAK AND SHALL BE PROTECTED BY EASEMENT, DEED RESTRICTION, ORDINANCE OR OTHER LEGAL MEASURES PREVENTING ITS NEGLIGENCE, ADVERSE ALTERATIONS, AND RESTORATION.
 - 6) DURING FIRST YEAR OF OPERATION, INSPECTION FREQUENCY SHOULD BE AFTER EVERY MAJOR STORM AND POORLY ESTABLISHED AREAS REVEGETATED.
 - 6) SEDIMENT ACCUMULATION ON THE SURFACE OF THE FACILITY SHOULD BE REMOVED AND THE TOP TWO TO THREE INCHES OF SURFACE LAYER REPLACED AS NEEDED.
 - 7) THE TOP FEW INCHES OF THE PLANTING SOIL SHOULD BE REMOVED AND REPLACED WHEN WATER PONDS FOR MORE THAN 48 HOURS OR THERE IS ALGAL GROWTH ON THE SURFACE OF THE FACILITY.
 - 8) IF STANDING WATER PERSISTS AFTER FILTER MEDIA HAS BEEN MAINTAINED, THE GRAVEL/SOIL AND SAND MAY NEED TO BE CLEANED AND/OR REPLACED.
 - 9) OCCASIONAL PRUNING AND REPLACEMENT OF DEAD VEGETATION IS NECESSARY. IF SPECIFIC PLANTS ARE NOT SURVIVING, MORE APPROPRIATE SPECIES SHOULD BE USED. WATERING MAY BE REQUIRED DURING PROLONGED DRY PERIODS.

LEGEND

- SOIL LINE: (Symbol) EX. WELL
- (Symbol) PERC. PASS
- DRAINAGE AREA: (Symbol) PERC. PASS
- (Symbol) PERC. FAIL
- EXISTING TREE LINE: (Symbol)

WELL AND SEPTIC NOTES:

TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE FOLLOWING STATEMENTS ARE TRUE:

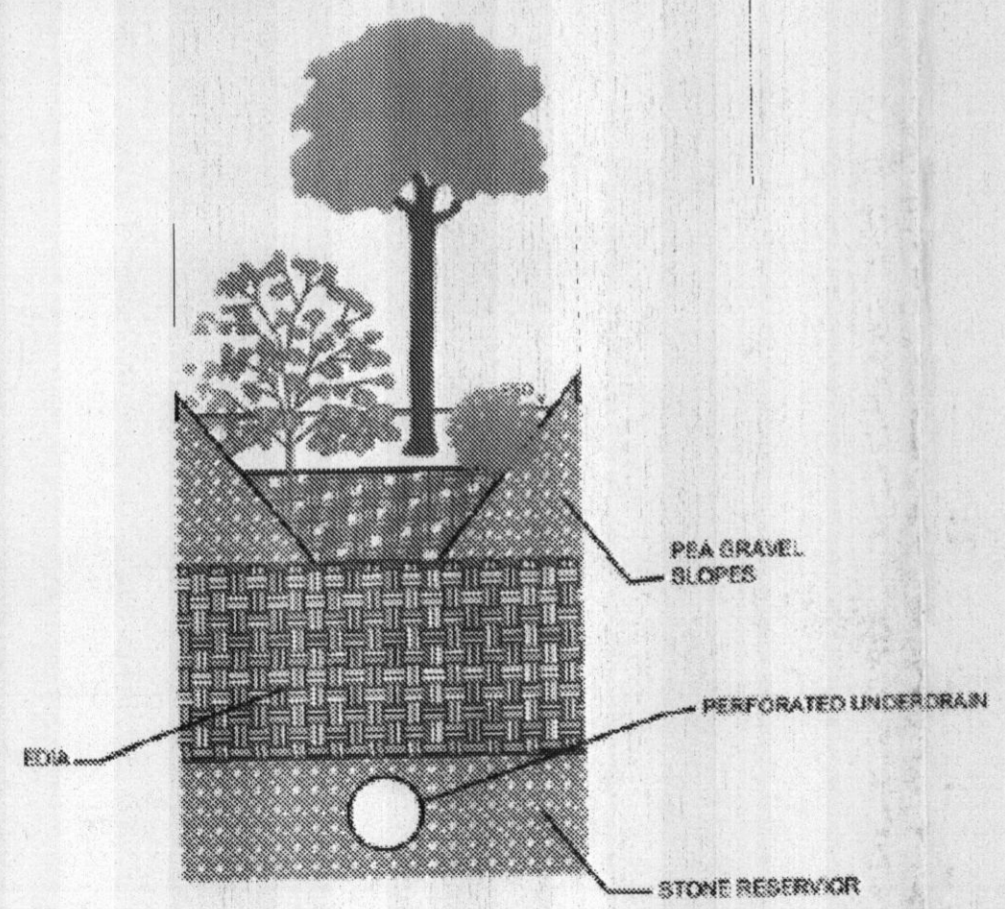
1) ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL EASEMENTS WITHIN 100' OF THE PROPERTY BOUNDARIES HAVE BEEN SHOWN. ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWNGRADIENT OF ANY EXISTING OR PROPOSED SEPTIC SYSTEM AND SEWAGE DISPOSAL EASEMENTS HAVE BEEN SHOWN. THE ENGINEER HAS USED ALL EFFORTS TO FIND THE LOCATIONS OF ALL SURROUNDING WELLS AND SEPTIC SYSTEMS

THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTHS AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AS SHOWN ON THE RECORD PLAT 18240 GENERAL NOTES ITEM 2.

ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN

THE SOIL TYPE FOR THIS LOT IS GID2,CgB2, & CgB2

THE PURPOSE OF THIS PLAN IS TO REVISE THE SEPTIC RESERVE AREA OF A PREVIOUSLY APPROVED PLOT PLAN TO CREATE ADDITIONAL USABLE AREA IN THE BACK YARD AND DESIGN ESD TO THE MEP.



Profile
BIORETENTION DETAIL

SWM COMPUTATIONS	LANDSCAPE INFILTRATION	INV. AT HOUSE	397.5
STRUCTURAL PRACTICE		GRD. AT INV. AT HOUSE	401.0
DRAINAGE AREA	0.41 ACRES	INV. IN TANK	398.3
PROPOSED IMPERVIOUS AREA	0.12 ACRES	INV. OUT TANK	398.0
ESD Pe RAINFALL TARGET	1.0 IN	TOP OF TANK	397.0
ESD RUNOFF VOLUME	748 CF	GROUND OVER TANK	400.0
WATER QUALITY VOLUME	468 CF		
BIORETENTION DEVICE	560 SQ FT	INV. IN DIST. BOX	394.3
WQV OR ESD VOLUME PROVIDED	748 CF	INV. OUT DIST. BOX	394.0
TOTAL WQV OR ESD TREATED	748 CF	GROUND AT BOX	398.0
Pe ACHIEVED	1.60 IN		

TYPE: HENLEY (COLONIAL)- WALKOUT BASEMENT
GUEST ELITE SUITE
ADD'L 1' TO HEIGHT OF BASEMENT
NAPLES SUNROOM

OPTION No. 017
OPTION No. 035
OPTION No. 070
OPTION No. 529

APPROVED: FOR HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION

DIRECTOR

ADDRESS: 11259 INDEPENDENCE WAY
ELLCOTT CITY, MD 21043

APPROVED FOR PRIVATE WATER & PRIVATE SEWERAGE SYSTEMS
HOWARD COUNTY HEALTH DEPARTMENT

DATE: 2/19/11
DATE: 2/19/11



ESE Land Planning
Engineering
Land Surveying

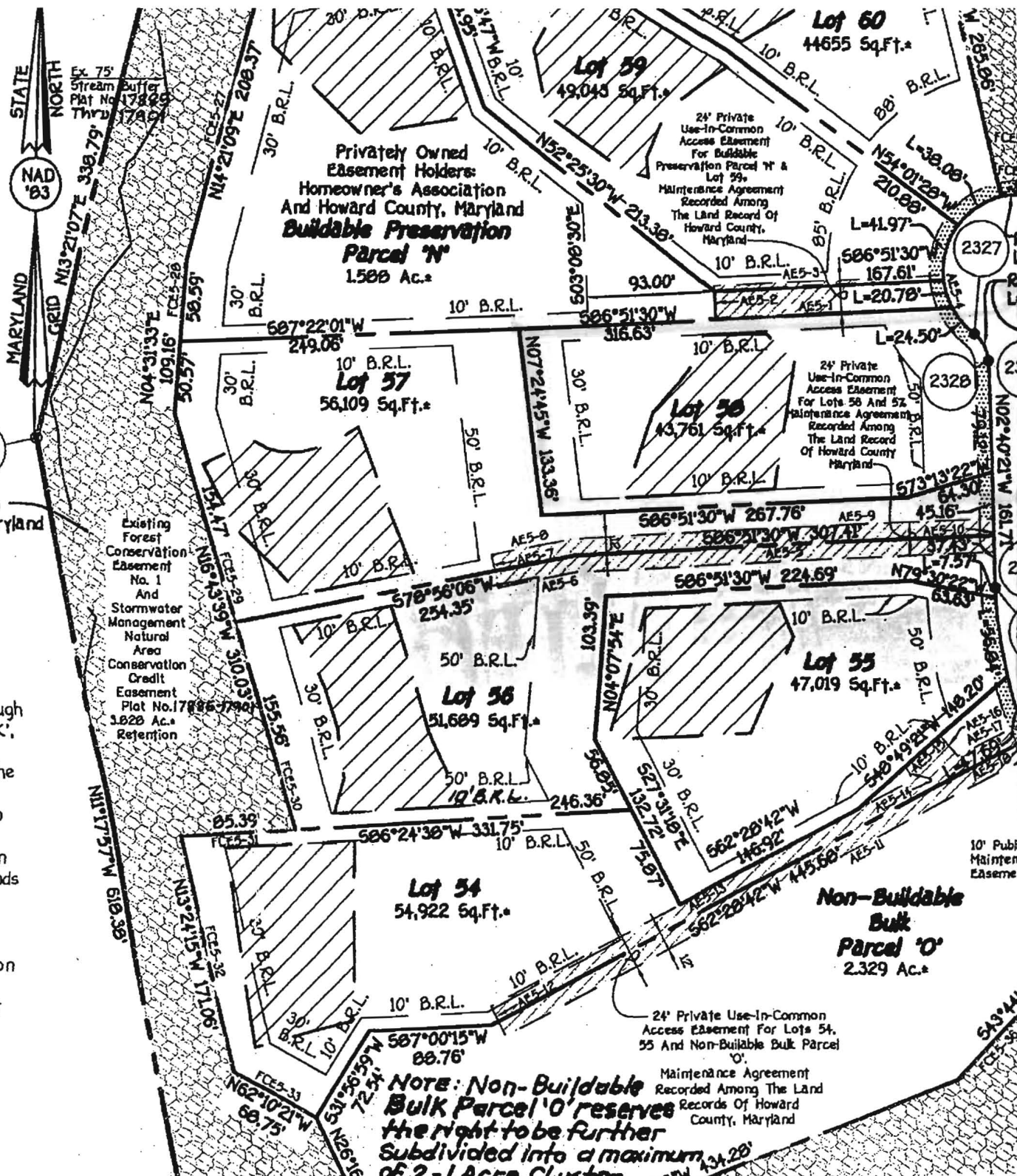
ESE Consultants Inc.
7164 Columbia Gateway Dr.
Suite 203
Columbia, MD 21046
TEL: 410-872-9105
FAX: 410-872-4870

PERMIT PLOT PLAN
SWM LANDSCAPE INFILTRATION DESIGN
AND PERCOLATION CERTIFICATION PLAN

LOT #56
HOMWOOD CROSSING
D.B. 9808, PG. 204
PLAT No. 18244
THIRD ELECTION DISTRICT
HOWARD COUNTY

DATE: 12/09/10 SCALE: 1"=40' FILE: 1214 LOT 56 SWM DESIGN
CHK'D: MJB JOB#: 1214 DRAWN: MJB

L/146
/05
/05
/05
/05



*Perc Cert
Signed
on 4-30-06
DB*

rs Association
rd County, Maryland

And
nts
Successors
This Plan For
ublic Utilities
s "Forest
er, And Through
ation Parcel 'K',
And
eyances Of The
: Easements
ssly Stated In
loper Shall
ements Herein
fes And Bounds
Area. Upon
heir
The Case Of
on Completion
e Forest
e Agreement
And The
th Said
Easements
The Land

Note: Non-Buildable Bulk Parcel 'O' reserves the right to be further subdivided into a maximum of 2-1 Acre Cluster