

A 515226

COUNTY #

SOIL PROFILE

3mgr-f sbbkly

AP Lm	9"
DE Brn	17"
10YR 5/6 hLm-hsLm 2F-m sbbkly	27"
CL Lm Fm sbbkly	42"
Micaceous hLm yellow brn strong brn 2m sbk 7.5YR 5/4	54"
SLm Lm-hLm massive	60"
SLm-CLm MIXED BANDS Variegated	

brns, greys, reds, yellows

SLm (homogeneous)

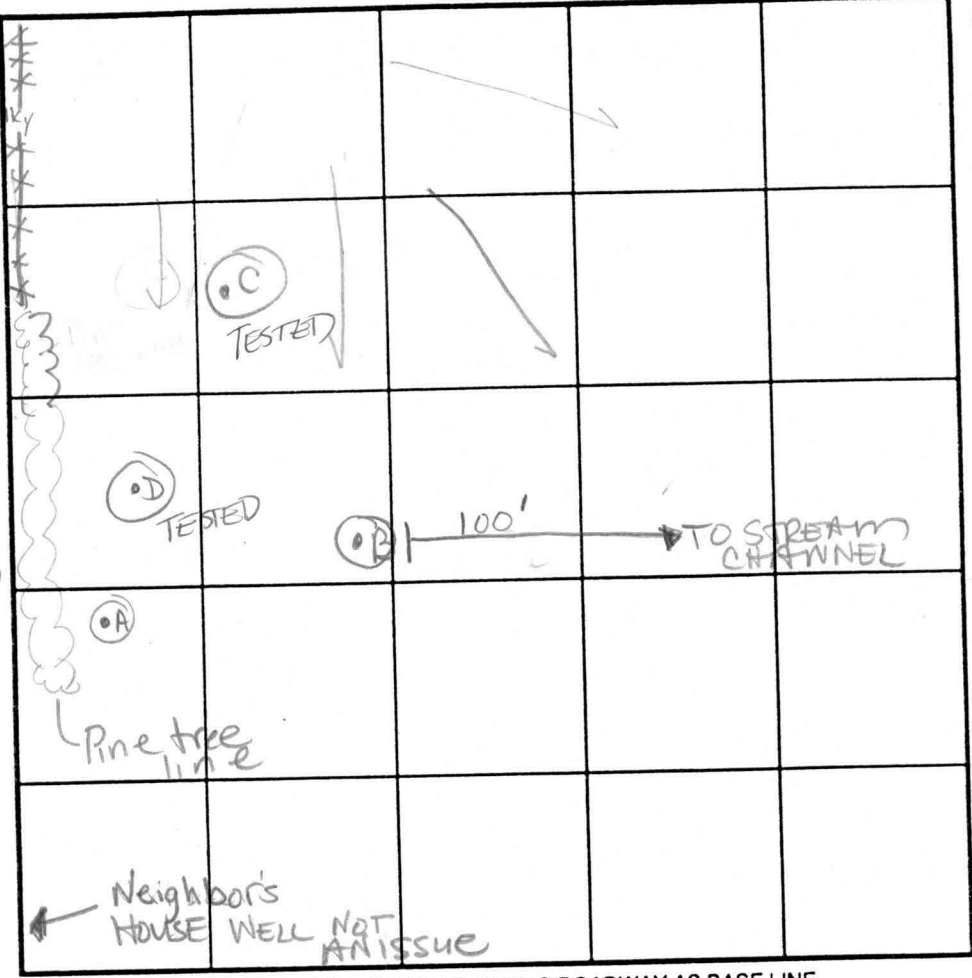


(B)

SOIL PROFILE

AP/A L 10YR 4/3	12"
BC CL 10YR-7.5YR 5/6	27"
BC L-CL 10YR 4/6-5/6	46"
CL SL 10YR 4/6 10YR 5/2	140"
Water Bottom	174"

@ 10 1/2' evidence of water table



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Braeburn Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
			START	STOP	START	STOP	
11/27/01	(A)	Visual					
	(B)	Visual					
	(C)	Hard Bottom @ 44"			SL-hSL	above	
	(D)	SET @ 16" - INFILTRATOR					

REMARKS Redoxomorphic chroma features @ 88" & deeper

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

TEST DATA

5" SOIL TESTED

NAME <u>Michael Toia</u>	FILE NO <u>A515 226</u>
LOCATION <u>Lot 27 Braeburn Subdiv</u>	COUNTY <u>Howard</u>
<u>Braeburn Rd</u>	DATE <u>11/27/01</u>
RECORDED BY <u>Ron &amp; Kaice</u>	GRID _____ E
	<u>Mike Johnson</u> N

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT FROM THE TOP	REMARKS (Method, Moisture, Biopores)
(D)		16 1/2" - 21 1/2"	12:19		11 8 1/16"	CLAY LM (Bt)
			12:37		11 10 1/16"	→ 1/8" in 18 min
			12:56		11 12 1/16"	→ 1/8" in 19 min
			1:19 <sup>50</sup>		11 13 1/16"	→ 1/16" in 24 min
			1:44		11 14 1/16"	1/16" in 25 min
			2:10		11 15 1/16"	1/16" in 26 min
(C)			2:32		12	1/16" in 22 min
		16 1/2" - 21"	12:32		12 10 1/16"	Bt a heavy lm
			12:45 <sup>30</sup>		13 10 1/16"	→ 1" in 13 1/2 min
			1:06		14 10 1/16"	→ 1" in 20 min <sup>30 sec</sup>
			1:14 <sup>30</sup>		13 10 1/16"	
			1:40 <sup>45</sup>		14 10 1/16"	1" in 24 min
			1:44 <sup>15</sup>		13 8 1/16"	
		2:01 <sup>15</sup>		14 8 1/16"	1" in 25 min	

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

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

LOT	SECTION		MOTTLES DESCRIPTION	STRUCTURE	CONSISTENCE	%ROCK BY VOL.	REMARKS (Caving,moisture,etc.)
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DEPTH	TEXTURE	MATRIX COLOR	MOTTLES DESCRIPTION	STRUCTURE	CONSISTENCE	%ROCK BY VOL.	REMARKS (Caving,moisture,etc.)
HOLE							

Slope%-	EL.(ft)-	Chroma 2-	Least Permeable Layers-
Landscape Position-	Water BLS-	Limiting Zones-	
Additional Remarks-			

TEST DATA

NAME <u>Michael Toia</u>	FILE NO <u>A51522.6</u>
LOCATION <u>Braetwan lot 27</u>	COUNTY <u>Howard</u>
<u>(No Backhoe Shovel today)</u>	DATE <u>6/11/01</u>
RECORDED BY <u>PKinley</u> ( <u>AH description by Cliff Stein</u> )	GRID <u>E</u>
	<u>N</u>

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
AH2	AH-2	13-19"	9:05:30 9:27:30 9:29:00 9:50:00 9:54:00 10:20:00		7' 5 7/16" 7" 6" 6" 5"	using (3-5% slope) (in gal Ben Cl horizon) AH2 (Notes by Cliff Stein) A1 0-2" L 10YR 4/3 part E 2-8" L 10YR 4/6 " Bt 8-28" L-CL 7.5-10YR 5/6 M Bc 28-34 L F1R 7.5YR 6/1R Fe-C-25wt 7.5-10YR 5/6 F2d 10YR 6/1R Fe C F1d 10YR 5/3-33 Rapid on RF -34% No water 2.8ft
AH1	AH-1	12-18"	9:26:00 9:58:00		7" 6 13/16"	Bt, 7-22" CL-L (10YR 5/6) SL > 22" water observed @ 72" 6/11/01 AH1 (5-6% slope) A1 0-2" L 10YR 4/3 M Bt1 2-7" L 10YR 4/6 M Bt2 7-22" CL-L 10YR 5/6 M Bc 22-26" SL 10YR 6/6 M C1 26-56" SL 10YR 3/6 M C2 56-80" SL Unagated E/Mn-C C3 80-120" SL 10YR 3/6 E/F1d 10-7.5YR 5/R F2d 10YR 5/3-5/2 -WL- 9ft ↑? Est GWHT 5+0 7ft

Survey #1001 + 2. 5/1/01  
 + wells + Septics on Neighboring lots, There is a well + Pond on

**TEST DATA**

NAME <u>Michael Toia</u>	FILE NO <u>A 515226</u>
LOCATION <u>Breeburn lot 27</u>	COUNTY <u>Howard</u>
<u>NE/ Breeburn Road (near Bendin Road)</u>	DATE <u>6/11/01</u>
<u>(No backhoe was available today) - Hand dig holes only</u>	GRID _____
RECORDED BY <u>R. Pinkley (c Cliff Stein)</u>	_____

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
AH3	No Test	— Too Close to Stream (only 60'±)				AH3 Side slope A, 0-1" L 10YR 4/3-3/3 m E 1-10" L 10YR 3/6 m Bt 10-22" hL-SCL 10YR 5/4 m (12-22") c-mid 7.5% Fed 10YR 2/2 BC 22-26" HSL Variegated Fed 10YR 2/2 C, 26-29" SL-clSL mn-c m mn-c -26" (m-vn) Repaired on R.F. 29
Infiltration <u>AH-4</u>		15-21	10:20:30 10:50 (Min Target) 11:25:00 11:58:30 12:28:00	(55 min 1st 1") 1/2" in 20 min 7/16" in 30 min est 66 imp	2" 6" 5 1/2 5 1/6	Bt, 13+ hL-CL 10YR 5/6 A <sub>1,2</sub> 0-13" L 10YR 4/3-4/4

C.S. Earth Data  
 Fax 410-758-8168

Hold for Biohaz Testing

**TEST DATA**

check for well site on 10874 Braeburn (lot 26)

NAME Michael Toia FILE NO A515226  
 LOCATION Braeburn lot 27 COUNTY Howard  
 DATE 6/11/01  
 according to Soil Survey Map of lot is GmC2 (Glenville) with  
 some ML in upper corner - and stream is identified as intermittent on Survey  
 GRID \_\_\_\_\_ E  
 RECORDED BY AP Pentley \_\_\_\_\_ N  
 (with in / for 20 min (low))

HOLE NO.	TEST NO.	DEPTH	CLOCK TIME	ELAPSED TIME	MEASUREMENT	REMARKS (Method, Moisture, Biopores)
	AH-5	16-22"	11:06:40		7"	in Bt <sub>1</sub> (heavy loam)
			11:25:00		6"	
			11:49:00	24 min for 2 2/16" drop	4 10/16"	
		Repair	11:50:00		6"	
			12:18:00	28 min for 2 2/16" drop	4 10/16"	

# APPLICATION

A 182<sup>60</sup>~~58~~

P \_\_\_\_\_

*2-12' holes  
50ft. apart*  
*5/11/73*  
*7:30 A.M.*

## SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

DISTRICT 5

DATE 4/12/73

HOWARD COUNTY HEALTH DEPARTMENT  
ENVIRONMENTAL HEALTH SERVICES  
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043  
TELEPHONE: 465-5000, EXT. 356

TO: THE COUNTY HEALTH OFFICER  
ELLICOTT CITY, MARYLAND

I, HEREBY, APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER Ronald S. Taylor

ADDRESS 39333 Sadie Road, Randallstown, Maryland PHONE 465-6195

PROPERTY LOCATION:

SUBDIVISION Braeburn LOT NO. 27, Plat 1

ROAD AND DESCRIPTION Braeburn Road

THE SYSTEM UNDER THIS PERMIT  
IS ACCEPTABLE ONLY UNTIL  
PUBLIC FACILITIES BECOME AVAILABLE.

SIZE OF LOT 1.575 acres TYPE BLDG. 3  
NUMBER OF BEDROOMS  
(Single Fmly. Dwllg.)

IF NOT SINGLE RESIDENCE DESCRIBE \_\_\_\_\_

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT Ronald S. Taylor

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

REJECTED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_  
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS \_\_\_\_\_ DATE \_\_\_\_\_

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_

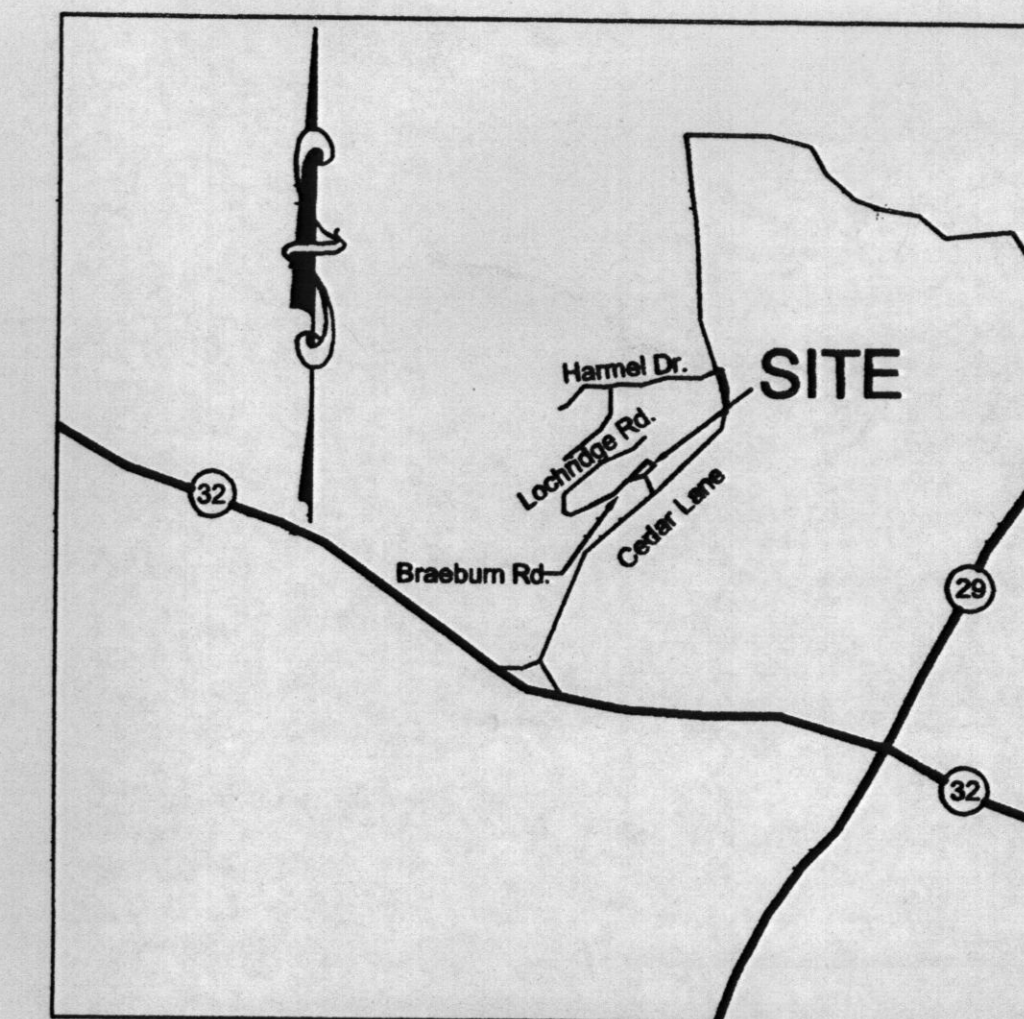
# THIS IS NOT A PERMIT

CHARLES R. COMPTON  
ET UX.  
L.893 F.225

LOT 40  
P.B. 10 F.12

CURVE	DELTA	RADIUS	LENGTH	CHORD BEARING	CHORD	TAN
C1	25°24'45"	225.00	99.79	N 67°36'13" W	98.98	50.73

PAUL L. THOMPSON  
ET UX.  
L.3162 F.364



Vicinity Map  
Scale: 1" = 2000'

GENERAL NOTES

- 1) PROPERTY IDENTIFICATION: LOT 27 BRAEBURN PLAT BOOK 8, FOLIO 80. NORTH SIDE BRAEBURN ROAD 170 FEET WEST OF CEDAR LANE. TAX MAP #35, BLOCK 17, PARCEL #228
- 2) THE PURPOSE OF THIS PLAT IS TO CREATE THE SEWAGE DISPOSAL AREA FOR LOT 27.
- 3) THE PERC TEST FEE RECEIPT # IS A 515 226
- 4) THERE ARE NO EXISTING HOLES PREVIOUSLY DOCUMENTED SHOWN HERE ON.
- 5) THIS PLAT SHOWS THE LOCATION OF EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY SHOWN HERE ON TO THE BEST OF MY KNOWLEDGE.
- 6) SAND MOUND RATE TESTS WERE RUN ON AH1, AH2, AH4, AH5, C AND D. NO RATE TESTS WERE PERFORMED AT AH3, TP1, TP2, TP3 AND TP4.
- 7) THE SAND MOUND FOOT PRINTS WERE DESIGNED FOR A FOUR BEDROOM HOUSE AT DAILY DESIGN FLOW OF 600 GPD.
- 8) OWNER MUST SUBMIT A SAND MOUND CONSTRUCTION PLAN TO HOWARD COUNTY HEALTH DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO RELEASE OF BUILDING PERMIT.
- 9) SAND MOUND DESIGN IS BASED ON 12% SLOPE AND 24" UPSLOPE SAND FILL UNDER GROUND BED.

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED UNDER MY DIRECT SUPERVISION, AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THE TOPOGRAPHY AND PERC TEST LOCATIONS SHOWN HEREON WERE FIELD LOCATED ON AND BETWEEN DECEMBER 26, 2001 AND JANUARY 02, 2002. THE VERTICAL DATUM IS ASSUMED BASED ON THE BENCH MARK SHOWN HEREON.

*J.P. O'Connor, Prof. L.S.* 8 July 02  
DATE  
JAMES P. O'CONNOR, PROF.L.S.  
MARYLAND REG. #200006

PERCOLATION CERTIFICATION PLAT  
 LOT 27  
 BRAEBURN  
 PLAT BOOK 8 FOLIO 80  
 FIFTH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 MIKE AND JOYCE TOIA  
 723 WALKER ROAD  
 GREAT FALLS, VIRGINIA 22066  
 703 757 7021

**RBA**  
ENGINEERS • ARCHITECTS • PLANNERS  
7184 Columbia Gateway, Suite 200  
Falls Church, VA 22044  
Phone (410) 818-0288, Fax (410) 818-0897

REVISIONS

NO.	DATE	DESCRIPTION
01	07-01-02	SPELLING CORRECTION



GRAPHIC SCALE 1"=20'

DATE:	07-01-02
JOB NUMBER:	M3223.00
FILE NUMBER:	3223PERC
PLOTTED:	07-08-02
DRAWN BY:	K.S.
PERCOLATION CERTIFICATION PLAT	
SHEET	1 of 1

This area designates a private sewage disposal area for sand mound disposal only as required by the Maryland Department of Environment for individual sewage disposal. Improvements of any nature in this area are restricted. This sewage disposal area shall become null and void upon connection to a public sewerage system. The County Health Officer shall have authority to grant adjustments to the private sewage disposal area. The lot shown here on complies with the minimum ownership width and lot area required by the Maryland Department of Environment.

LEGEND

- ⊙ DENOTES HOLE THAT PASSED
- ⊕ DENOTES HOLE THAT FAILED
- ⊙ DENOTES AUGERED HOLE
- ⊕ DENOTES TEST HOLE
- ⊙ DENOTES EXISTING WELL
- ⊕ DENOTES PROPOSED WELL SITE
- DENOTES APPROXIMATE SOIL LINE LOCATION

ROBERT C. JOHNSON  
L.3799 F.220

LOT 26  
P.B. 8 F.80

MICHAL J. TOIA  
ET UX.  
L.722 F.536

LOT 27  
P.B. 8 F.80

JOHN M. HAMILTON JR.  
ET UX.  
L.691 F.339

LOT 28  
P.B. 8 F.80

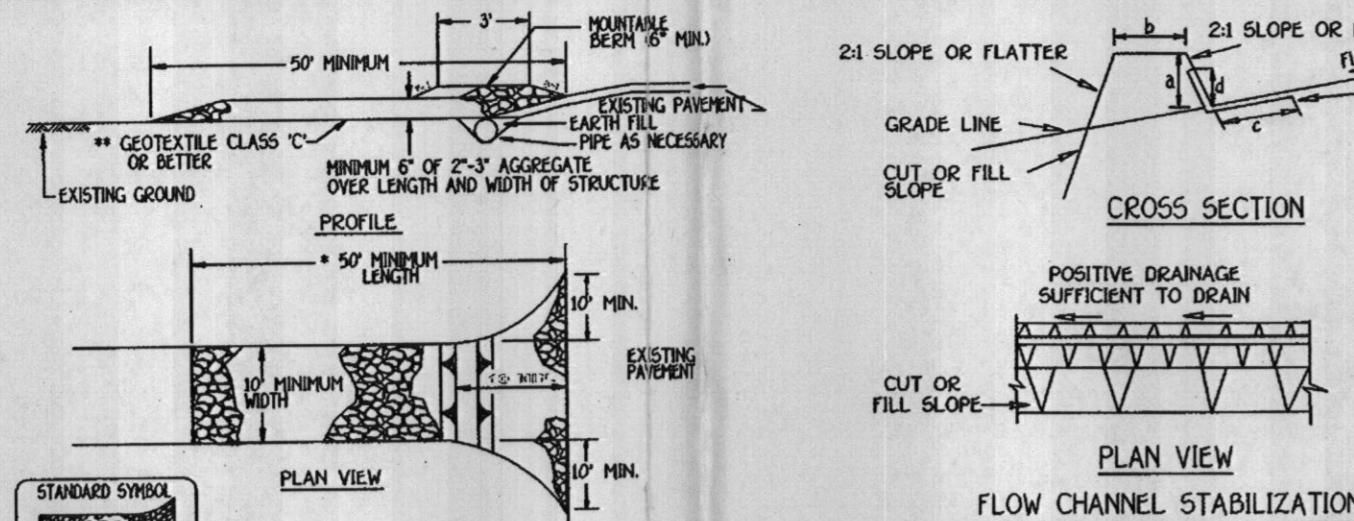
BRAEBURN ROAD  
(50' RW)  
P.B. 8 F.80

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS IN CONFORMANCE WITH THE MASTER PLAN OF HOWARD COUNTY

*Howard County Health Officer* 7/11/02  
HOWARD COUNTY HEALTH OFFICER DATE

SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION...



Construction Specifications for stabilized construction entrances, including requirements for length, width, and materials.

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN GRADING PERMIT 7 DAYS
2. INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN 7 DAYS
3. CLEAR AND GRUB TO LIMITS OF DISTURBANCE 4 DAYS

DEVELOPER'S/BUILDER'S CERTIFICATE

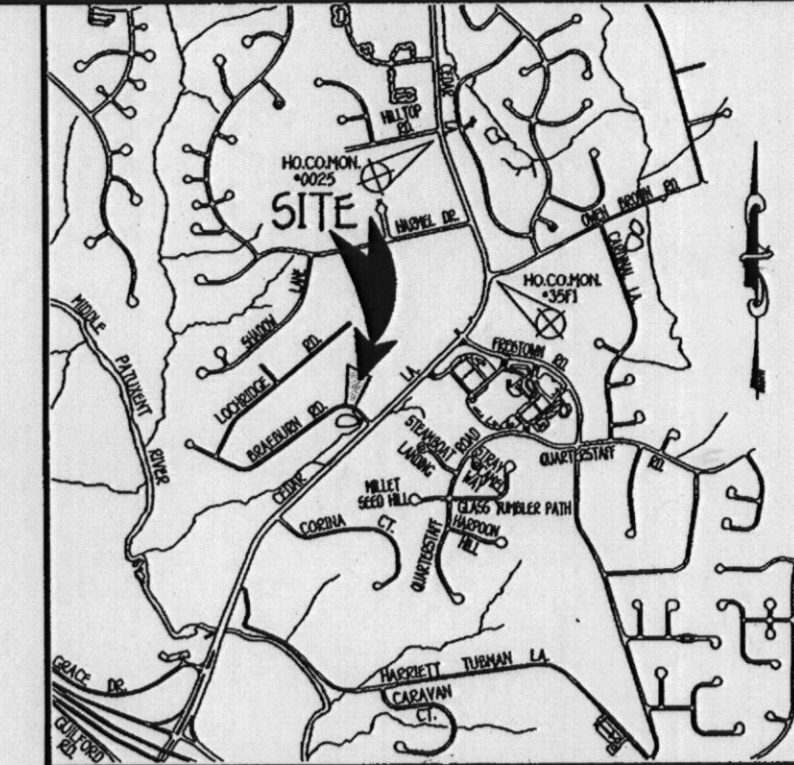
I/WE CERTIFY THAT THE LANDSCAPING SHOWN ON THIS PLAN WILL BE DONE ACCORDING TO THE PLAN, SECTION 16124 OF THE HOWARD COUNTY CODE AND THE HOWARD COUNTY LANDSCAPE MANUAL...

BENCH MARKS

- T.P. 35F1 ELEV 401.6
N. 557.787.366
E. 134.5217.325
LOC. NEAR THE INTERSECTION OF CEDAR LANE & OWEN BROWN ROAD

ADDRESS CHART

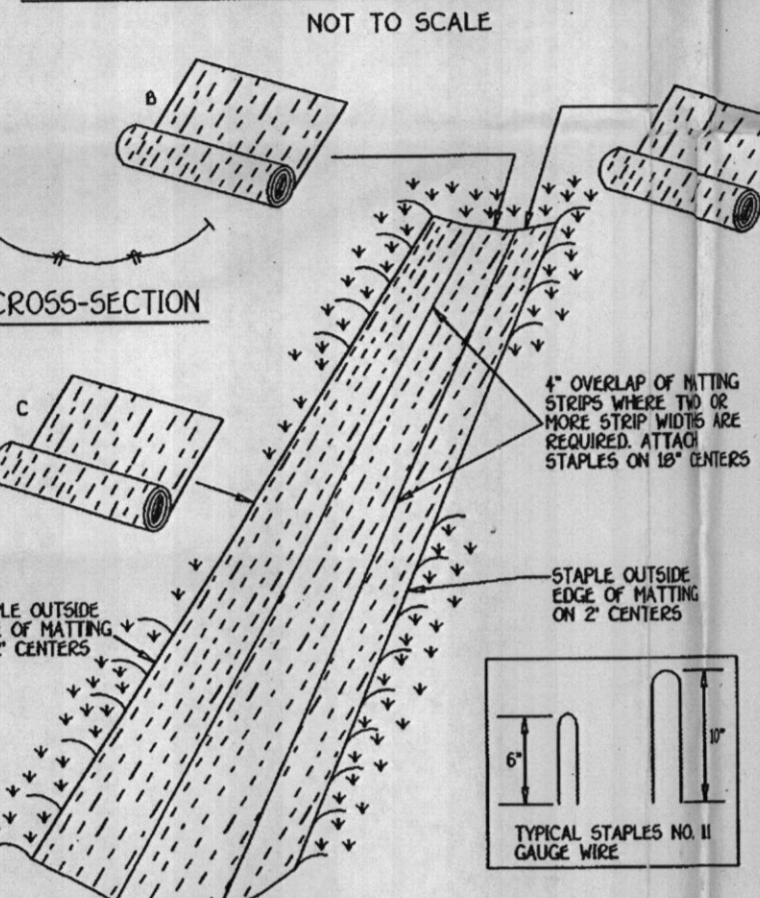
Table with columns for Lot Number and Street Address, showing lot 27 at 10810 BRAEBURN ROAD.



GENERAL NOTES

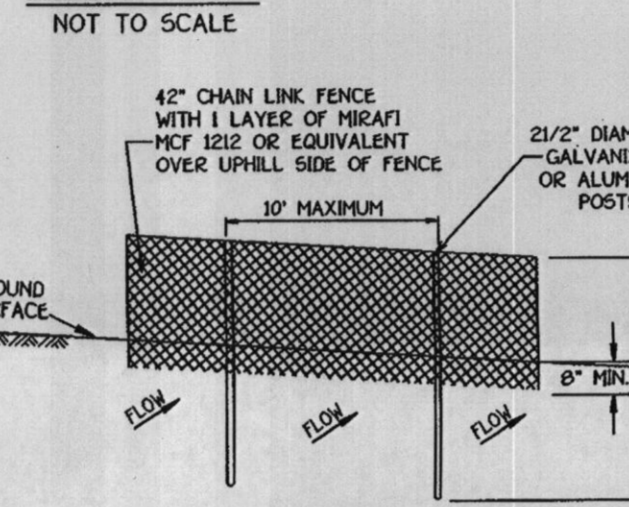
- 1. THE PROPERTY IS ZONED R-20 PER THE 10/16/93 COMPREHENSIVE ZONING PLAN.
2. THE TOTAL AREA INCLUDED IN THIS SUBDIVISION IS 1.575 ACRES.
3. TOTAL NUMBER OF LOTS INCLUDED IN THIS SUBDIVISION IS 1.

STABILIZED CONSTRUCTION ENTRANCE



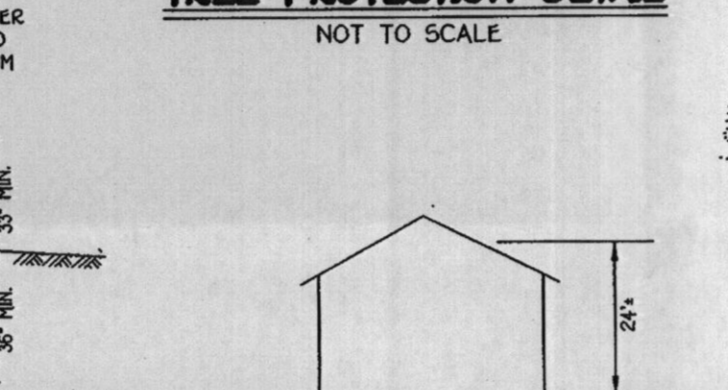
Construction Specifications for stabilized construction entrances, including requirements for length, width, and materials.

EARTH DIKE



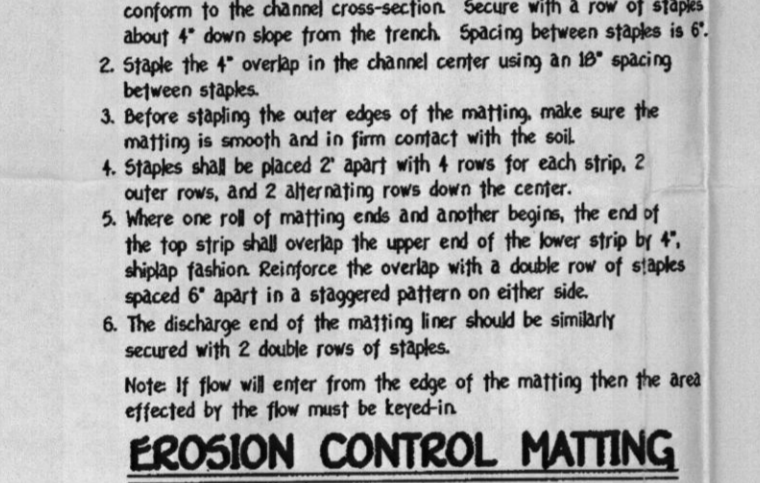
Construction Specifications for earth dikes, including requirements for height, width, and materials.

TREE PROTECTION DETAIL



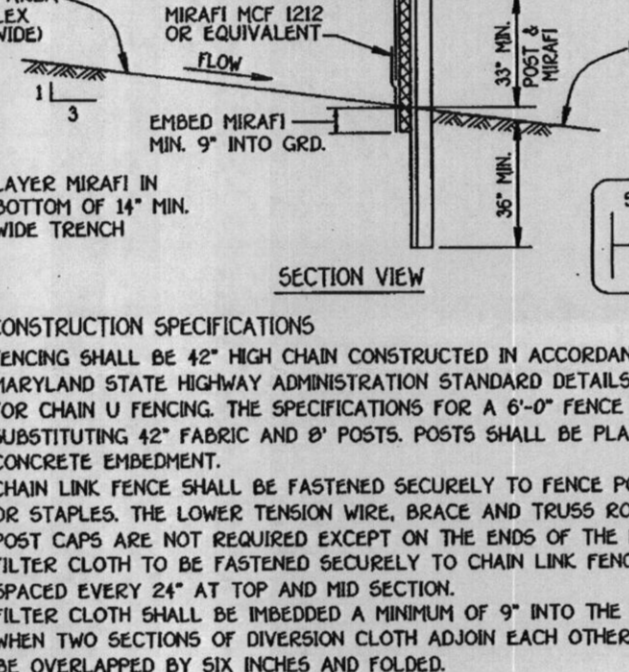
Construction Specifications for tree protection details, including requirements for fence height and sand mound size.

EROSION CONTROL MATTING



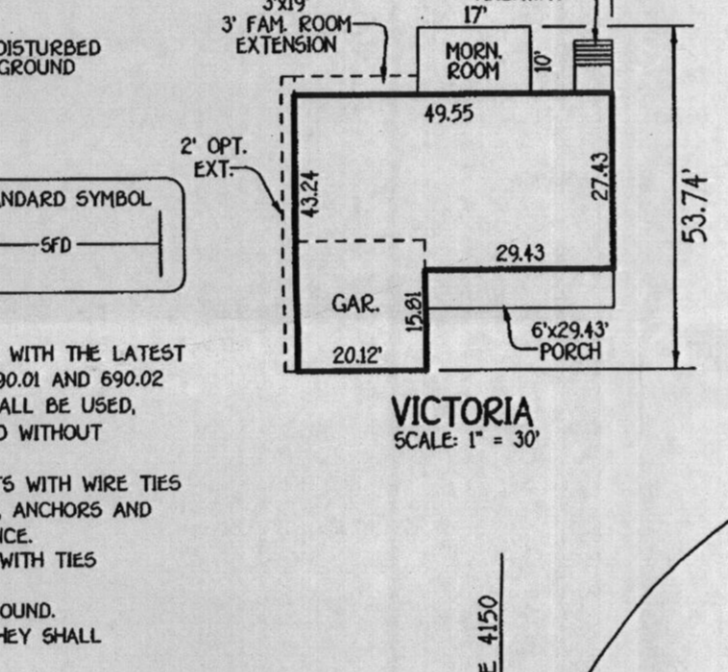
Construction Specifications for erosion control matting, including requirements for matting type and installation.

PERSPECTIVE VIEW



Construction Specifications for earth dikes, including requirements for height, width, and materials.

SECTION VIEW

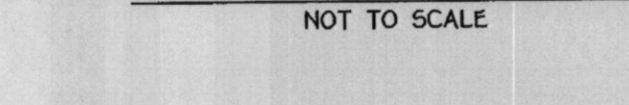


Construction Specifications for earth dikes, including requirements for height, width, and materials.

LEGEND

Legend table listing symbols for existing contours, spot elevations, super silt fences, earth dikes, tree protection fences, existing tree lines, and limits of disturbance.

SUPER FENCE DIVERSION



Construction Specifications for super fence diversions, including requirements for fence height and materials.

LEGEND

Legend table listing symbols for existing contours, spot elevations, super silt fences, earth dikes, tree protection fences, existing tree lines, and limits of disturbance.

SCHEDULE A PERIMETER LANDSCAPE EDGE

Table showing landscape edge requirements for lot 27, including perimeter, category, and number of plants required.

STORMWATER MANAGEMENT NOTES

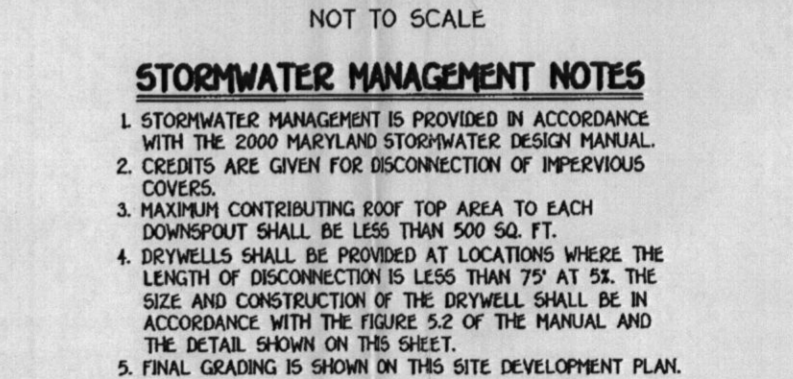
- 1. STORMWATER MANAGEMENT IS PROVIDED IN ACCORDANCE WITH THE 2000 MARYLAND STORMWATER DESIGN MANUAL.
2. CREDITS ARE GIVEN FOR DISCONNECTION OF IMPERVIOUS COVER.

SOILS LEGEND

Soils Legend table listing soil types (GnC2, MgC2, M2C) and their classifications (C, B, B).

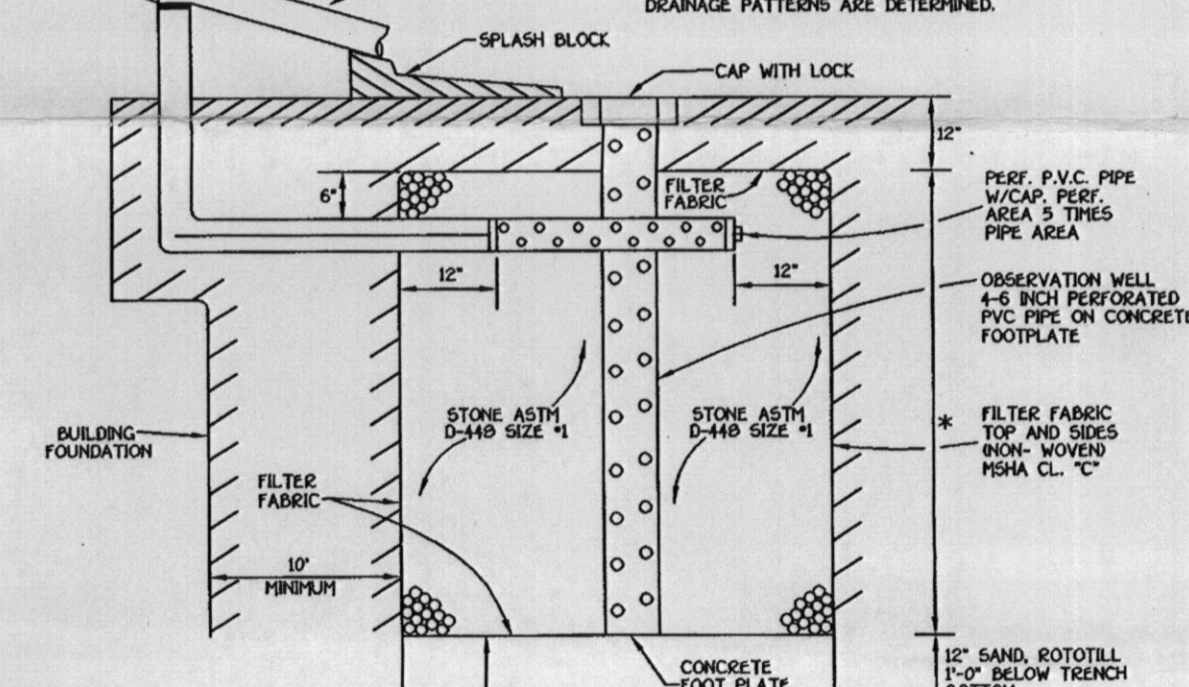
- NOTES:
\* Hydric soils and/or contains hydric inclusions
\*\* May contain hydric inclusions
† Generally only within 100-year floodplain areas

TYPICAL GRASS CHANNEL SECTION



Construction Specifications for typical grass channel sections, including requirements for channel width and materials.

DRY WELL DETAIL



Construction Specifications for dry well details, including requirements for filter fabric and concrete.

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

Signature of County Health Officer, dated 4-17-03.

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS.

STATE OF MARYLAND PROFESSIONAL ENGINEER seal for Earl D. Collins.

ENGINEER'S CERTIFICATE

I certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

Signature of Engineer, Earl D. Collins, dated 11-26-02.

DEVELOPER'S CERTIFICATE

I/We certify that all development and construction will be done according to this plan, for sediment and erosion control and that any responsible personnel involved in the construction project will have a Certificate of Attendance at a Department of the Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project.

Signature of Developer, Mitch Saula, dated 11-26-02.

OWNER/DEVELOPER/BUILDER

Signature of Mitch Saula, dated 11-26-02.

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Signatures and dates of approval from the Howard County Department of Planning and Zoning.

SITE DEVELOPMENT & SEDIMENT/EROSION CONTROL PLAN

Project details including Lot 27, Braeburn, and the date of the plan (November, 2002).