

# APPLICATION

PERCOLATION TESTING

A \_\_\_\_\_

P \_\_\_\_\_

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

DISTRICT 5TH

DATE 2/9/01

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 D.R. HORTON

ADDRESS 1370 PICCARD DRNE  
ROCKVILLE MD 20850 PHONE 301-670-6144

AGENT OR PROSPECTIVE BUYER CLARK SPERRY

ADDRESS P.O. BOX 417  
ELLICOTT CITY MD 21041 PHONE 410-465-4244

PROPERTY LOCATION:

SUBDIVISION PALMER PROPERTY LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION TEN OAKS ROAD

CLARKSVILLE

TAX MAP 34 PARCEL # 77

SIZE OF LOT 1 AC ± TYPE BLDG. SINGLE FAMILY DETACHED  
(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

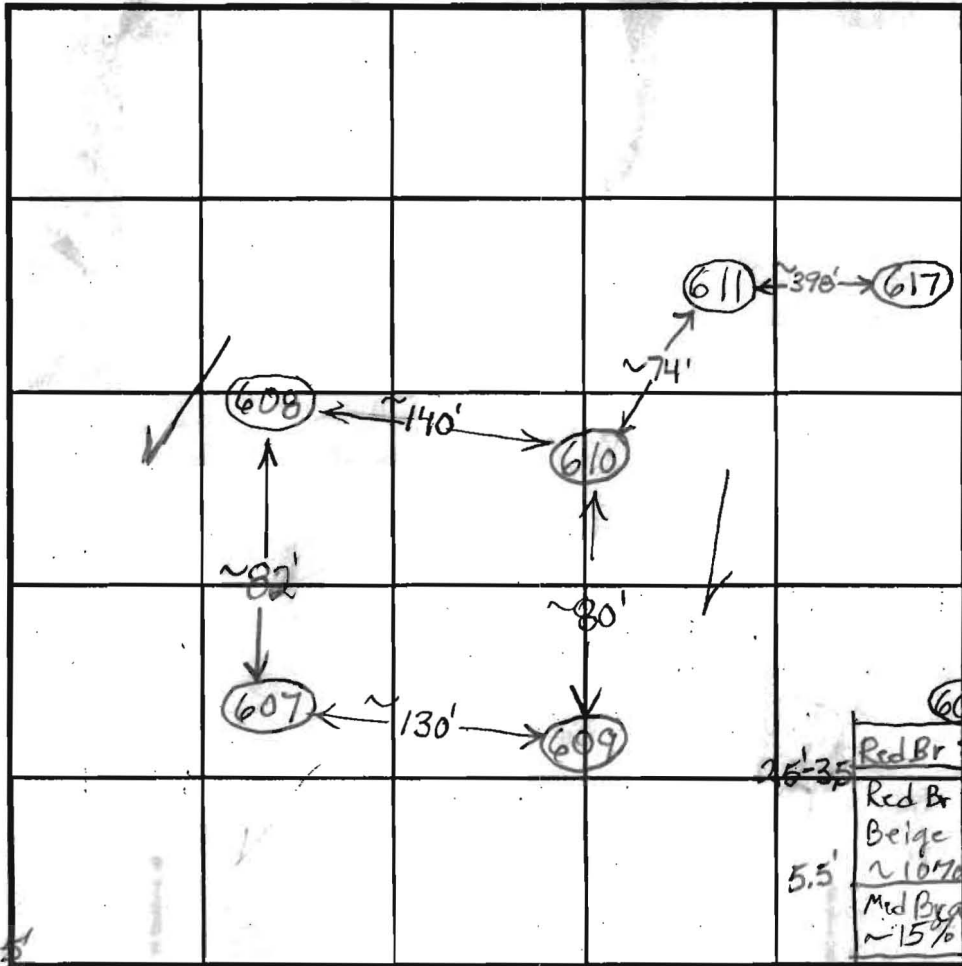
COUNTY #

SOIL PROFILE

0'  
 (610)  
 Red Br Loam  
 2-3'  
 Beige Sa Loam  
 20-25% Saprolite  
 Water 13'

SOIL PROFILE

0'  
 (607)  
 Red Br Heavy Loam 2.5'  
 Red Br Si Loam and Si Cl Loam 3.5'  
 Mixture of Red Br Si Loam and Beige Sa Loam Very Little Rock 5.5'  
 Beige Sa Loam ~20% Saprolite 9.5'  
 Caving Water 11'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

(611)  
 Red Br Si Cl Loam 2.5'  
 Red Br Loam 4.5-5'  
 Red Br Sa Loam 10-15% Saprolite 13.5'

(609)  
 Red Br Si Cl Loam 3.5-4'  
 Mixture of Red Br Si Loam and Beige Sa Loam, Very Little Rock 6'  
 Beige Sa Loam, ~20% Saprolite 9.5'  
 Caving Water 11'

(608)  
 Red Br Si Cl Loam 2.5-3.5'  
 Red Br Si Loam and Beige Sa Loam ~10% Rock 5.5'  
 Med Br and White Sa Loam ~15% Saprolite 10'  
 Caving Water 11'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
1/15/04	(610)	3'9" / 13' V	12:42:30	12:47:45	12:47:45	12:56:30	9 O.K.
		7'	12:42	12:44	12:44	12:47	3 O.K.
	611	4' / 13.5' V	12:24	12:42:30	12:42:30	1:13	30 1/2 O.K.
		6' 9"	12:24	12:25	12:25	12:26:30	1 1/2
		4.5'	12:30:30	12:33:30	12:33:30	12:39	5 1/2
	609	4'9" / 11' V	1:01:30	1:07	1:07	1:17:30	10 1/2 O.K.
		7'	1:01:30	1:16:45	1:16:45	1:42	25
	607	4.5' / 11' V	1:22:15	1:27	1:27	1:34	7 O.K.
		7.5'	1:22:30	1:24:30	1:24:30	1:28:30	4
	608	4' / 11' V	1:36	1:41:30	1:41:30	1:51:40	10 O.K.
		7.5'	1:36	1:37:30	1:37:30	1:39:30	2

REMARKS \_\_\_\_\_  
 TYPE OF SOIL \_\_\_\_\_  
 TESTED BY B. Baker ALSO PRESENT \_\_\_\_\_  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

COUNTY #

SOIL PROFILE

430

Red and Or Br Loam and Topsoil

2'-3'

Or Br Loam and Or Br Sa Loam

3.5'-4'

Beige Sa Loam ~15% Rock and Saprolite

Wet Near Bottom

13'

432

Or Br Loam and Topsoil

2.5'

Or Br Loam and Or Br Sa Loam

4.5'-5'

Or Br Sa Loam ~20% Rock and Saprolite

Hard Bottom

11'

433

Red Br Heavy Loam

3.5'-4'

Or Br Si Loam and Beige Sa Loam

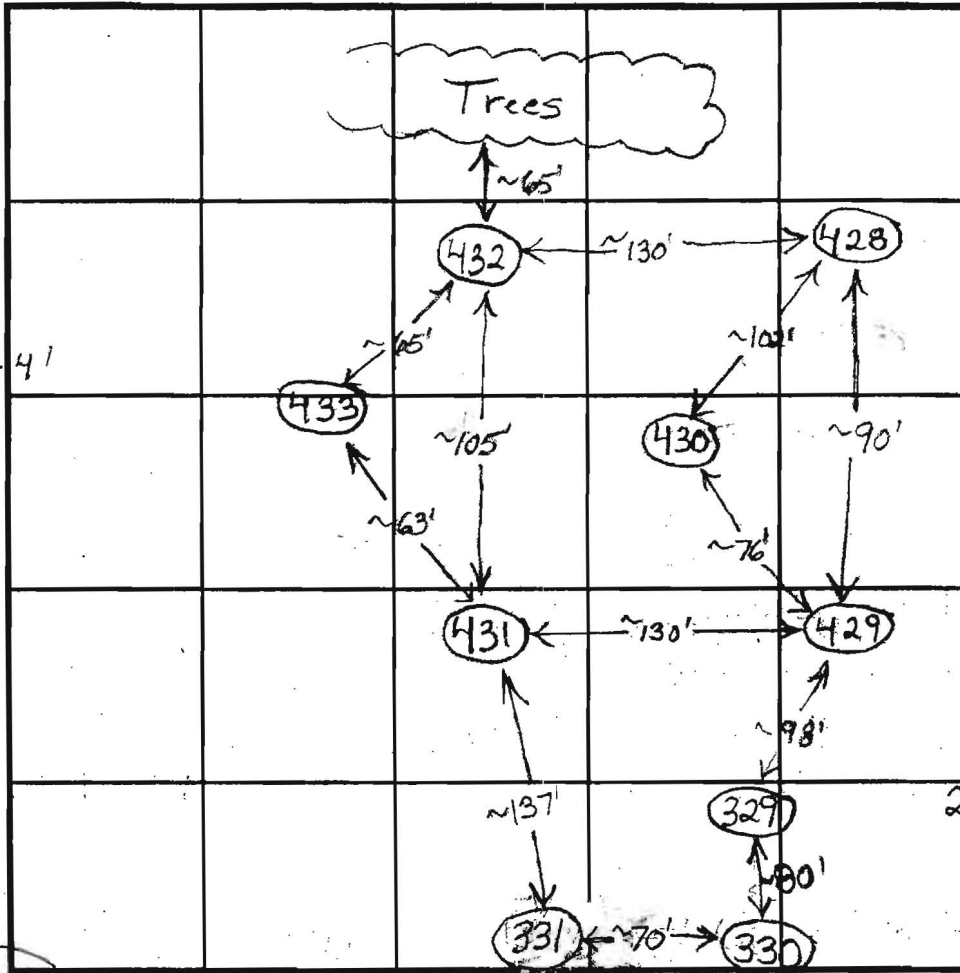
4.5'-5'

Beige Sa Loam

~15-20% Rock and Saprolite

Wet/Mottled Near Bottom

13.5'



SOIL PROFILE

431

Or Br and Red Br Loam

2.5'-3'

Very Fine Red Br Sa Loam

3.5'-4'

Or Br and Med Br Sa Loam with Manganese + Iron Concretions

Turner Gray with Depth Caving at 5.5'

Very Little Rock

Water

11.5'

330

Topsoil + Loam

Gray Mottling in Sa Structure

Water Coming in Around 3' According to Digger

7'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME		
			START	STOP	START	STOP			
4/18/03	430	4.5'/13'V	1:08	1:13:30	1:13:30	1:21	6 1/2	O.K.	
		7'	1:07:45	1:10	1:10	1:14	4		
	432	4'/11'V	1:30	1:40	1:40	1:55	15	O.K.	
		7'	1:29	1:31	1:31	1:33:30	2 1/2		
	433	4'8"/13.5'V	1:58:15	2:18	2:18	35 minutes but dirt fill in test hole		O.K. Below 5'	
		6'10"	1:58	2:07	2:07	1:21	14		
		5.5'	2:29:45	2:33:30	2:33:30	2:39:30	6		
	431	4'/11.5'V	2:45:30	2:49:15	2:49:15	2:56:15	7	Marg.	
		6'10"	2:44:15	2:45:45	2:45:45	2:47:45	2		
	331	Gray Mottling Below 2.5'	Repeatedly Caving to Surface					(F)	

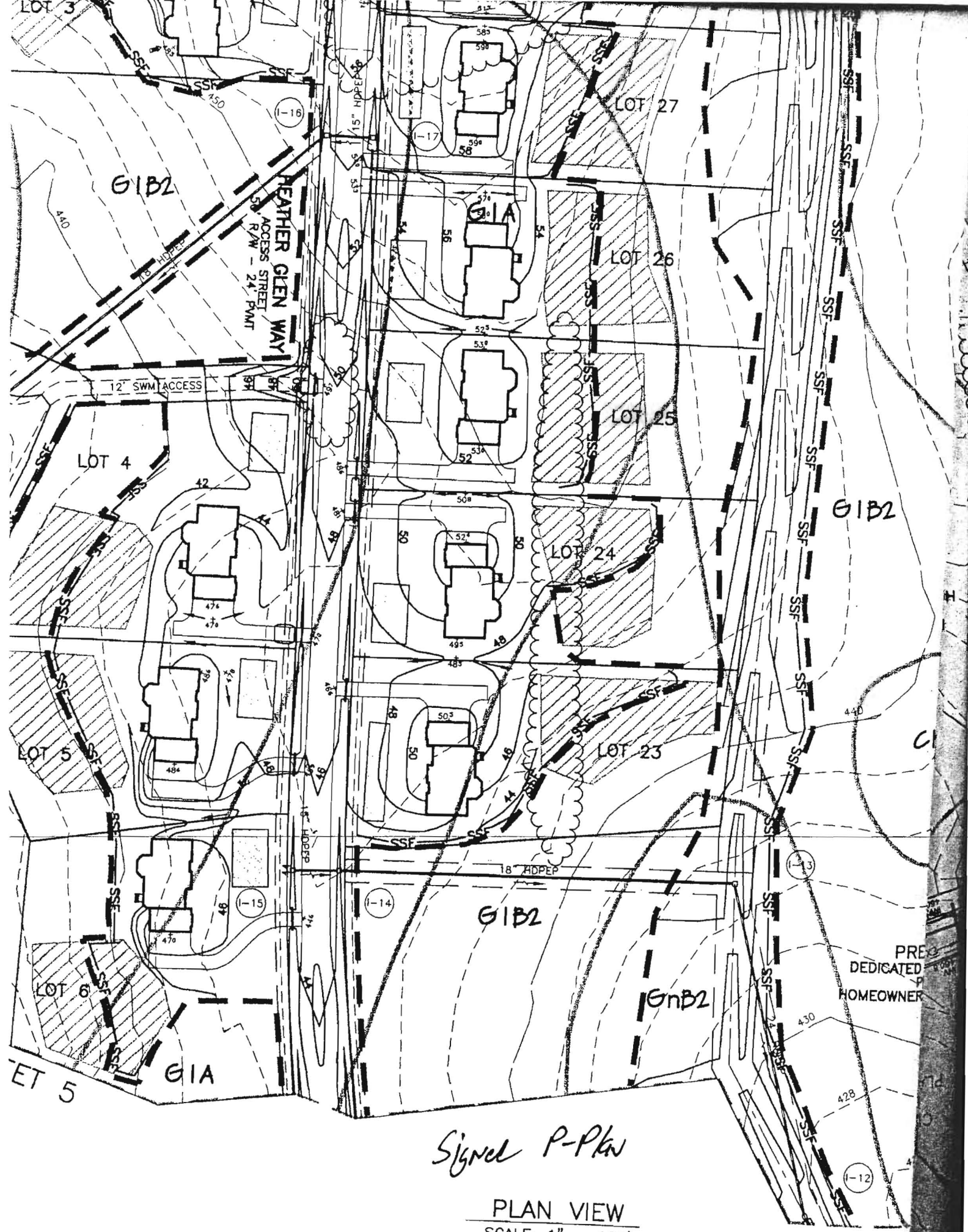
REMARKS 330 6.5' V, Loam to 2.5', Mottling Beneath, Water 6.5' (F)

TYPE OF SOIL

TESTED BY B. Baker ALSO PRESENT

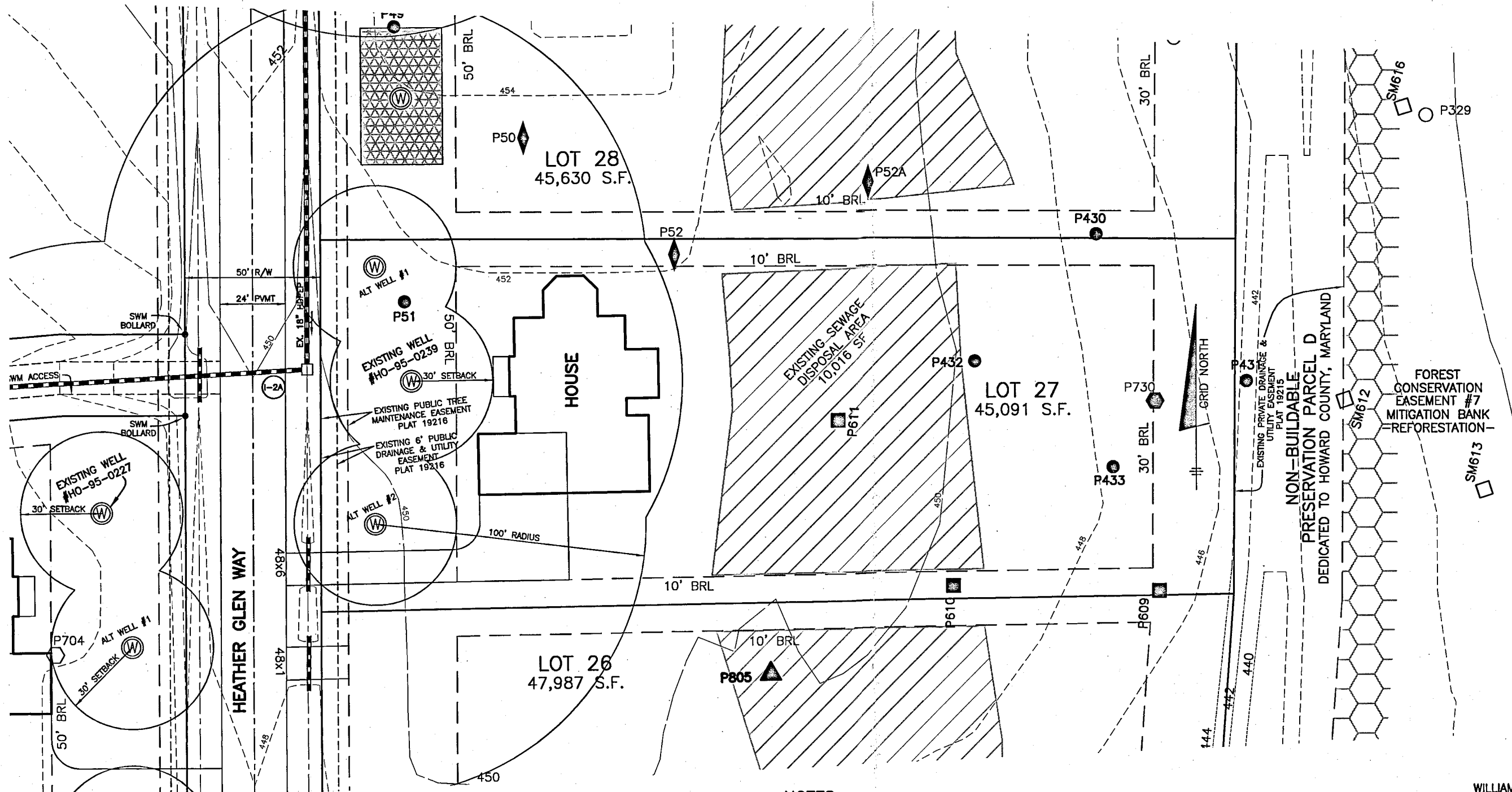
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT./BEDROOM



*Signed P-Plan*

PLAN VIEW  
SCALE: 1" = 100'



- ◆ PASSED TEST HOLE TESTED NOV-DEC 2001
- PASSED TEST HOLE TESTED APRIL/MAY 2003
- FAILED TEST HOLE TESTED APRIL/MAY 2003
- PASSED TEST HOLE TESTED JANUARY/FEB 2004
- FAILED TEST HOLE TESTED JANUARY/FEB 2004
- ⬢ PASSED TEST HOLE TESTED JUNE 2004
- ⬡ FAILED TEST HOLE TESTED JUNE 2004
- ▲ PASSED TEST HOLE TESTED AUGUST 2004
- ⊙ WELL LOCATION
- ⊞ 1,500 SF WELL BOX

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ▲ ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*By Wifon for Maurice Rosman 6/4/13*  
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE: 6/4/13

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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 MY KNOWLEDGE AND BELIEF.

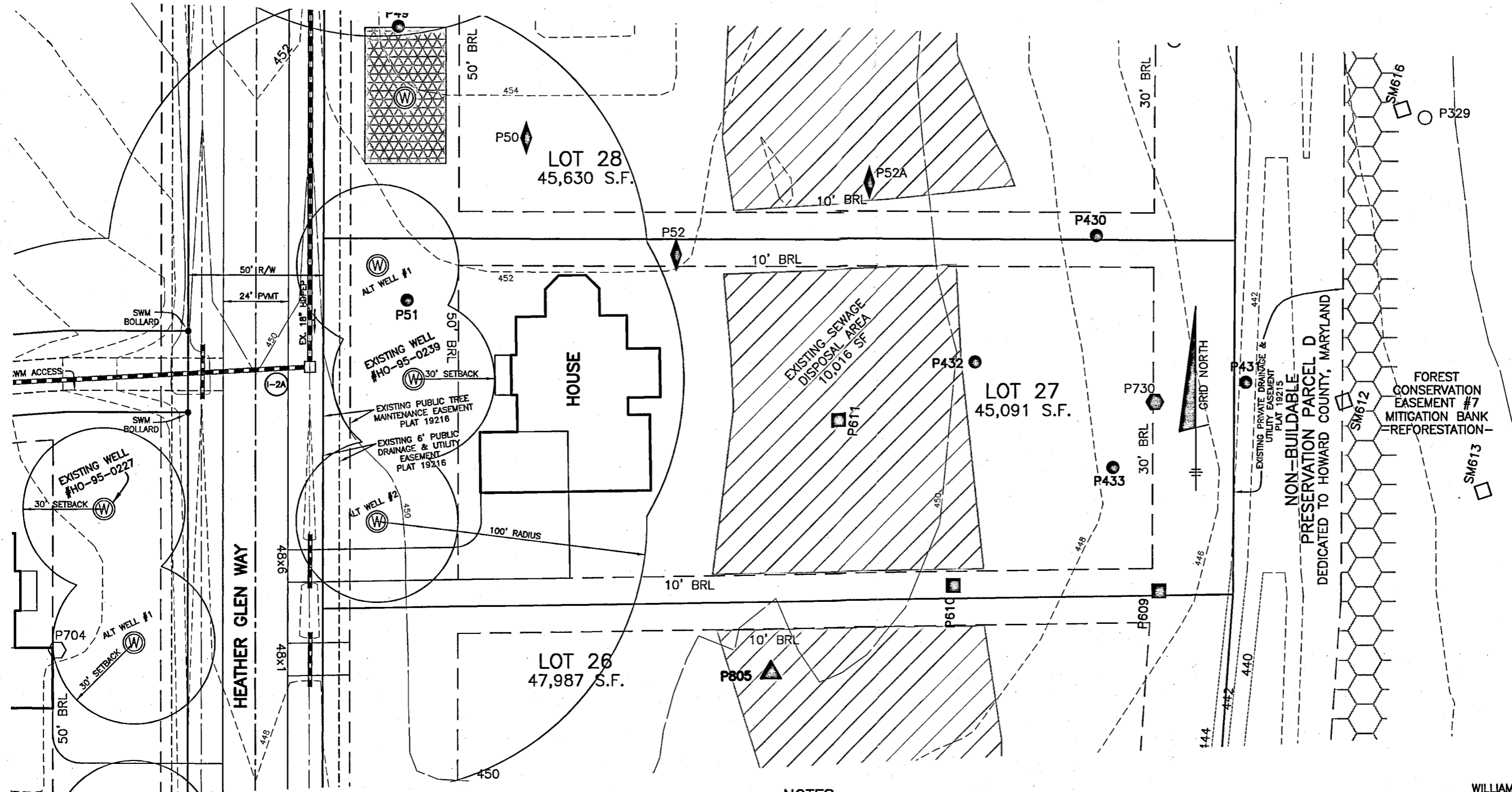
*David Thompson 6/4/2013*  
DAVID THOMPSON  
PLAN PREPARER

**NOTES:**

1. THE TOPOGRAPHY OF THIS PLAN IS TAKEN FROM FIELD SURVEY BY BENCHMARK ENGINEERING, INC. AND SIGNED F-06-072 PLANS AND IS VERIFIED TO ACCURATELY REPRESENT THE RELATIVE CHANGES ON THE SUBJECT PROPERTY.
2. THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE 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 EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
4. ANY CHANGES TO THE PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE LOT BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.
6. THE EXISTING WELL ON THIS LOT (TAG NO. HO-95-0239) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.

**BUILDER:**  
WILLIAMSBURG HOMES, INC 5485  
HARPERS FARM ROAD SUITE 200  
COLUMBIA, MARYLAND 21044  
410-997-8800

<b>THE PRESERVE AT CLARKSVILLE LOT 27</b>	
6231 HEATHER GLEN WAY TAX MAP: 34 GRID: PARCEL: 77 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>REVISED PERCOLATION CERTIFICATION PLAN</b>	
DATE: MAY 31, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1



- ◆ PASSED TEST HOLE TESTED NOV-DEC 2001
- PASSED TEST HOLE TESTED APRIL/MAY 2003
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- ⬡ FAILED TEST HOLE TESTED JUNE 2004
- ▲ PASSED TEST HOLE TESTED AUGUST 2004
- ⊙ WELL LOCATION
- ⊞ 1,500 SF WELL BOX

**BENCHMARK**  
ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS  
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS  
*David Thompson* 6/4/13  
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE

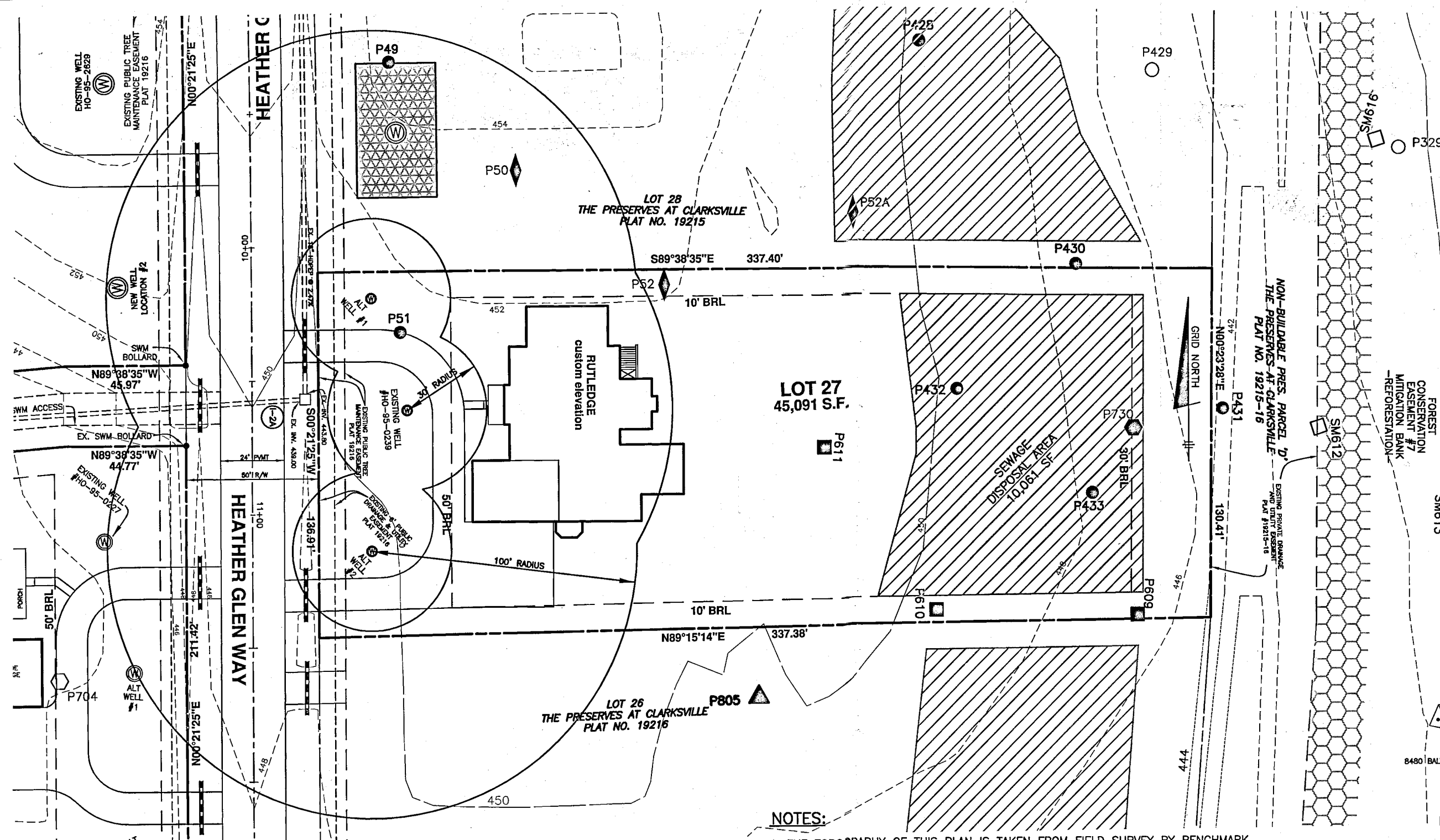
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*David Thompson* 6/4/2013  
DAVID THOMPSON  
PLAN PREPARER

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<b>REVISED PERCOLATION CERTIFICATION PLAN</b>	
DATE: MAY 31, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1



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- ⬡ FAILED TEST HOLE TESTED JUNE 2004
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- ⊙ WELL LOCATION
- ⊞ 1,500 SF WELL BOX

**BENCHMARK**  
 ENGINEERS • LAND SURVEYORS • PLANNERS  
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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

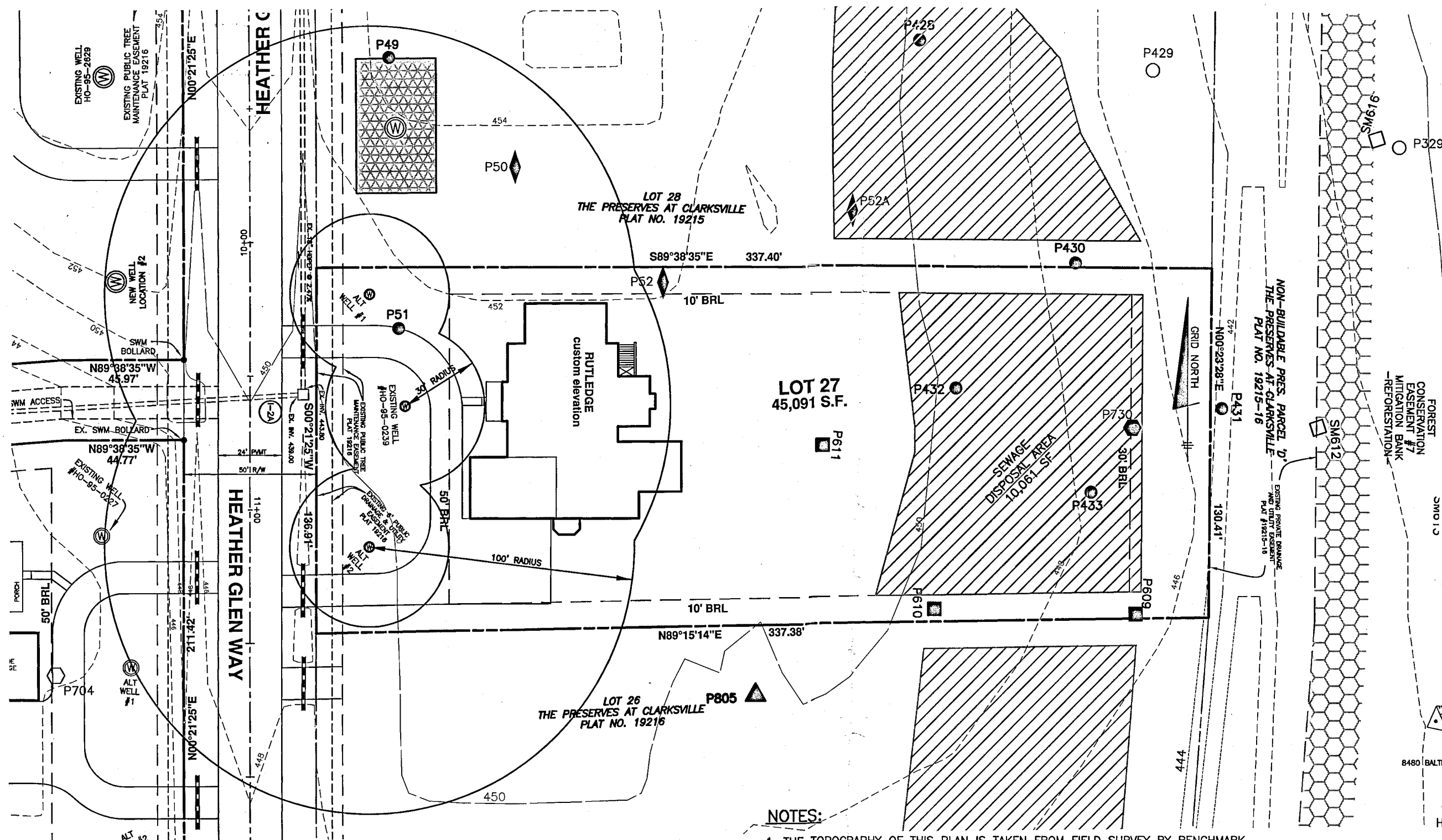
*B. Wilson for Monica Rossman* 4/1/14  
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE

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*[Signature]* 3/21/2014  
 DAVID THOMPSON  
 PLAN PREPARER

<b>THE PRESERVE AT CLARKSVILLE LOT 27</b>	
6231 HEATHER GLEN WAY TAX MAP: 34 GRID: PARCEL: 77 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
<b>REVISED PERCOLATION CERTIFICATION PLAN</b>	
DATE: MARCH 21, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1



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APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

*David Thompson* 4/1/14  
HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE

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*David Thompson* 3/2/2014  
DAVID THOMPSON  
PLAN PREPARER

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**THE PRESERVE AT CLARKSVILLE LOT 27**

6231 HEATHER GLEN WAY  
TAX MAP: 34 GRID: PARCEL: 77  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

**REVISED PERCOLATION CERTIFICATION PLAN**

DATE: MARCH 21, 2013 BEI PROJECT NO. 1407-W

SCALE: 1" = 40' DRAWING 1 OF 1



**BUILDABLE PRESERVATION PARCEL A**  
PRIVATELY OWNED  
HOWARD COUNTY EASEMENT HOLDER  
HOMEOWNERS ASSOCIATION EASEMENT HOLDER  
7.41 AC.

**SWMF #2 MICRO-POOL ED**  
HAZARDOUS CLASS 'A'  
PRIVATELY OWNED BY H.O.A.  
MAINTAINED BY H.O.A. & HO. CO.

**HEATHER GLEN WAY**

**LOT 5**  
49,073 S.F.

**LOT 4**  
47,406 S.F.

**LOT 3**  
42,306 S.F.

**LOT 2**  
43,197 S.F.

**LOT 30**  
49,953 S.F.

**LOT 29**  
45,641 S.F.

**LOT 28**  
45,630 S.F.

**LOT 27**  
45,091 S.F.

**LOT 31**  
50,135 S.F.

*0207  
G1B1*

*30*

*29*

*28*

*27*

*26*

*25*

*3*

*4*

*G1B2*

*G1C2*

*G1B2*

*G1B2*

*G1B2*

*G1B1*

*G1A*

*GnA*

*42" SILVER MAPLE FAIR COND.*

*EXIST. WELL HOUSE TO BE REMOVED*

*68" SILVER MAPLE POOR COND.*

*44" LINDEN FAIR COND.*

*42" LINDEN FAIR COND.*

*12' SWM ACCESS*

*UTIL. POLE (TYP.)*

*FIELD*

*WOOD*

*WOOD*

460

450

450

440

438

436

P226

P508

P378

P377

P376

P75

P218

P410

P701

P374

P702

P416

P415

SM517

SM513

P417

P418

SM518

SM515

P372

P370

P371

SM521

P369

swale

P705

P704

P20

P420

SM542

P419

P808

P523

P321

P319

P734

P320

P421

P618

P733

P324

P422

P45

P732

P424

P425

P426

P48

P47

P428

P429

P54A

P430

P51

P52

P432

P730

P433

P431

609

From: Robert

**From:** David Thompson [dthompson@bei-civilengineering.com]  
**Sent:** Tuesday, April 01, 2014 10:37 AM  
**To:** Bricker, Robert  
**Cc:** 'Bob Corbett'; cmalagari@bei-civilengineering.com  
**Subject:** RE: Preserves Lot 27, 6231 Heather Glen Way

Robert,

No problem with the all caps issue. I was probably in a bad mood and misinterpreted your e-mail. No worries!

For the Perc Cert, yeah, I wrote the wrong year in there. Please go ahead and correct it to be 2014. Please let me know once it's signed so I can pick up a copy.

Thanks Robert!

**David Thompson**

**Benchmark Engineering, Inc.**

8480 Baltimore National Pike, Suite 315

Ellicott City, Maryland 21043

410-465-6105 (phone)

410-465-6644 (fax)

---

**From:** Bricker, Robert [mailto:RBricker@howardcountymd.gov]  
**Sent:** Tuesday, April 01, 2014 10:19 AM  
**To:** David Thompson  
**Cc:** Bob Corbett; cmalagari@bei-civilengineering.com  
**Subject:** RE: Preserves Lot 27, 6231 Heather Glen Way

David, I may have intended that the caps would bring your attention to the matter that more comments could follow; no disrespect intended.

There is an issue with the Perc Cert that needs to be corrected before Approving Authority will sign: the DATE of the plan in the title block states "MARCH 21, 2013". The Approving Authority indicated the date is nonsensical as it precedes the most recent Perc Cert Revision (June 2013). We can strike the error, and write the correction as '2014' with your permission.

Robert Bricker, REHS/R.S., L.E.H.S.

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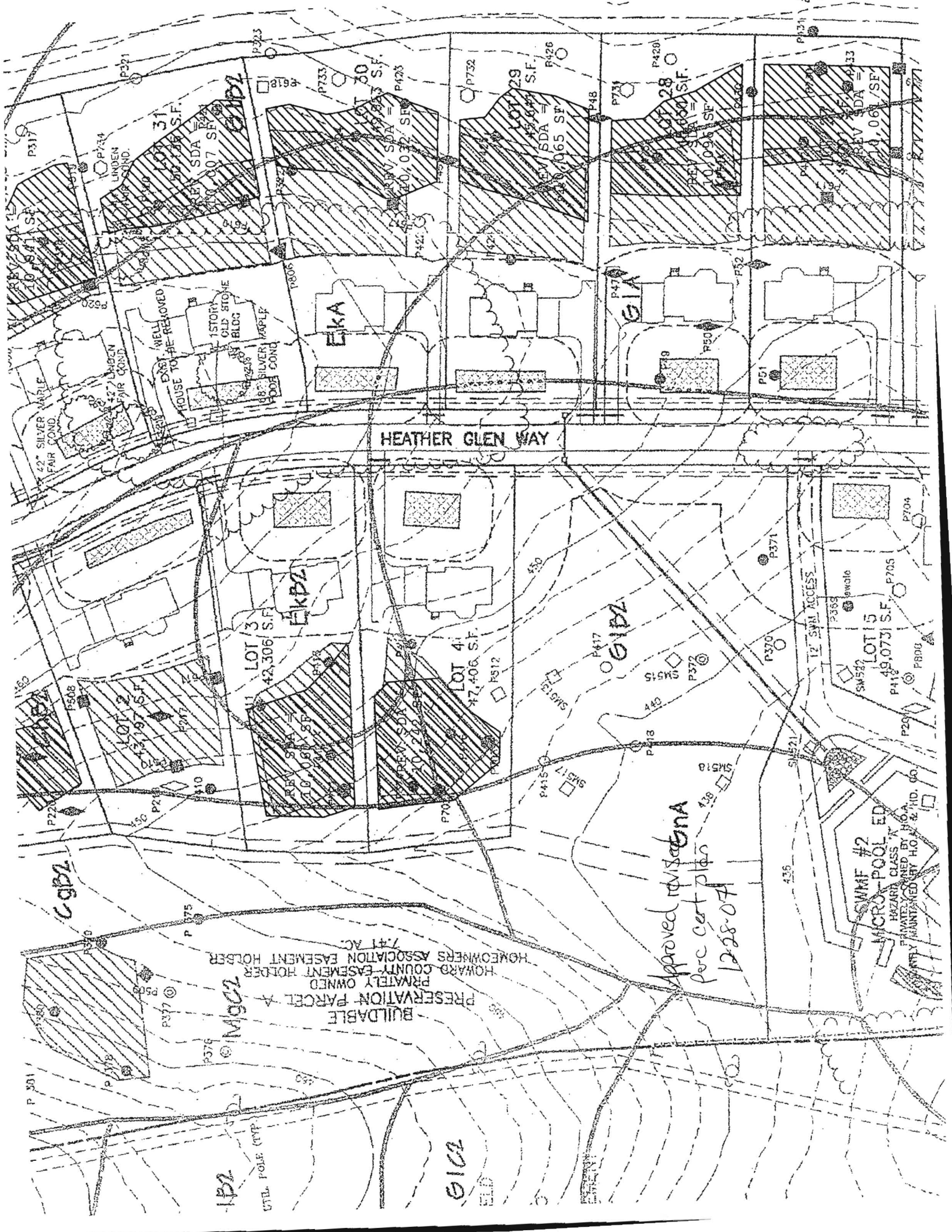
**From:** David Thompson [mailto:dthompson@bei-civilengineering.com]  
**Sent:** Friday, March 21, 2014 9:19 AM  
**To:** Bricker, Robert  
**Cc:** Bob Corbett; cmalagari@bei-civilengineering.com  
**Subject:** RE: Preserves Lot 27, 6231 Heather Glen Way

Robert,

I understand you have not had time to do the spec sheet. You already responded to this e-mail on Wednesday so I am not sure why you responding again and using all caps towards me.

I looked at the e-mail again that you sent to Bob Corbett on March 18th and I can see that you didn't even make the comment to add the trenches. So please disregard my e-mail below.

But to clarify the other issue about the perc area. You are requiring a new perc cert to revise the septic back to the December, 2007 location, is that correct?

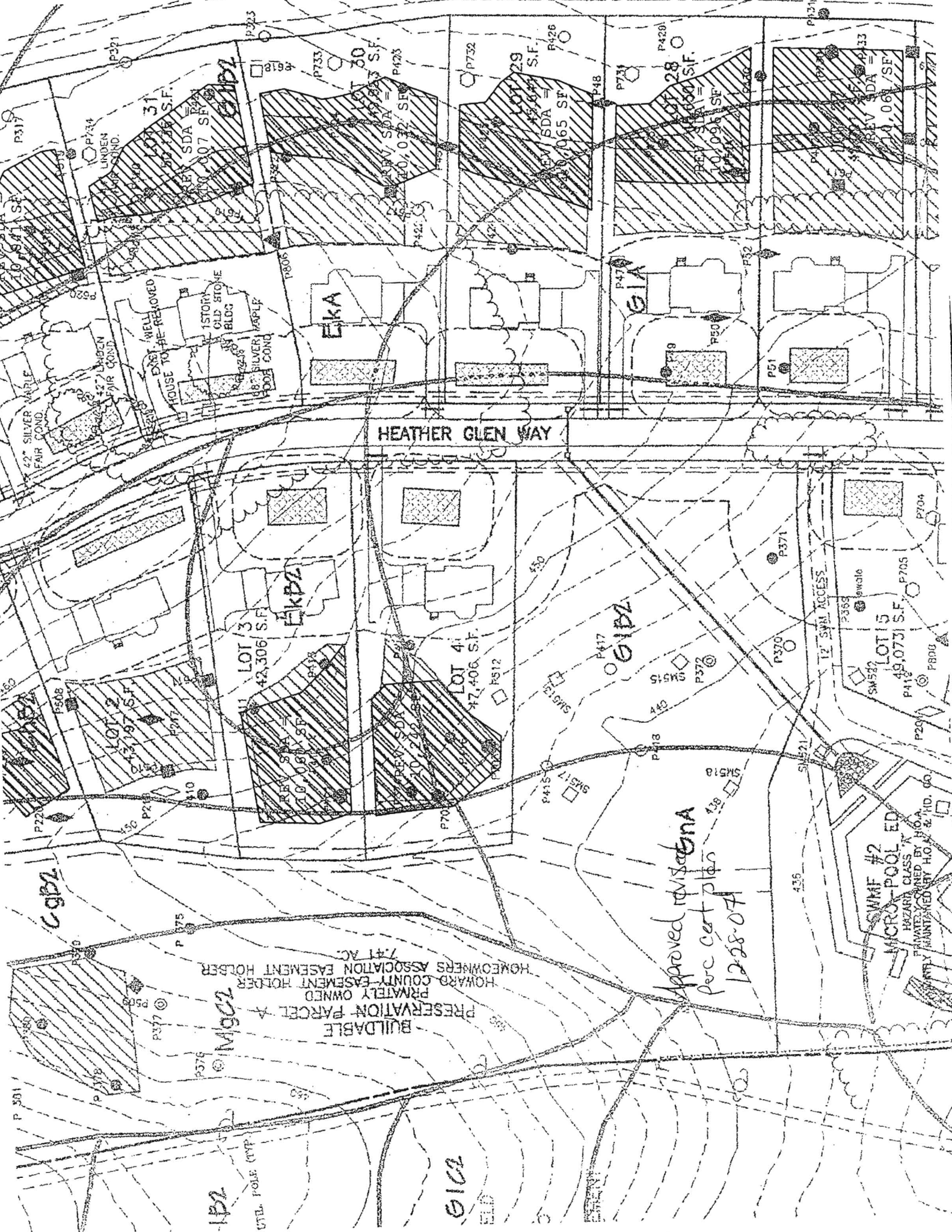


HEATHER GLEN WAY

BUILDABLE  
PRESERVATION PARCEL  
PRIMATELY OWNED  
HOWARD COUNTY EASEMENT HOLDER  
HOMEOWNERS ASSOCIATION EASEMENT HOLDER  
7.41 AC.

Approved revision  
perc cert plan  
1228-07

SWMF #2  
MICRO-POLLED  
HAZARDOUS CLASS  
PRIMATELY OWNED BY H.O.A.  
RECENTLY MAINTAINED BY H.O.A. & H.D. CO.



LOT 1  
10,071 S.F.  
EM SDA = 10,071 S.F.

LOT 2  
10,071 S.F.  
EM SDA = 10,071 S.F.

LOT 3  
42,306 S.F.

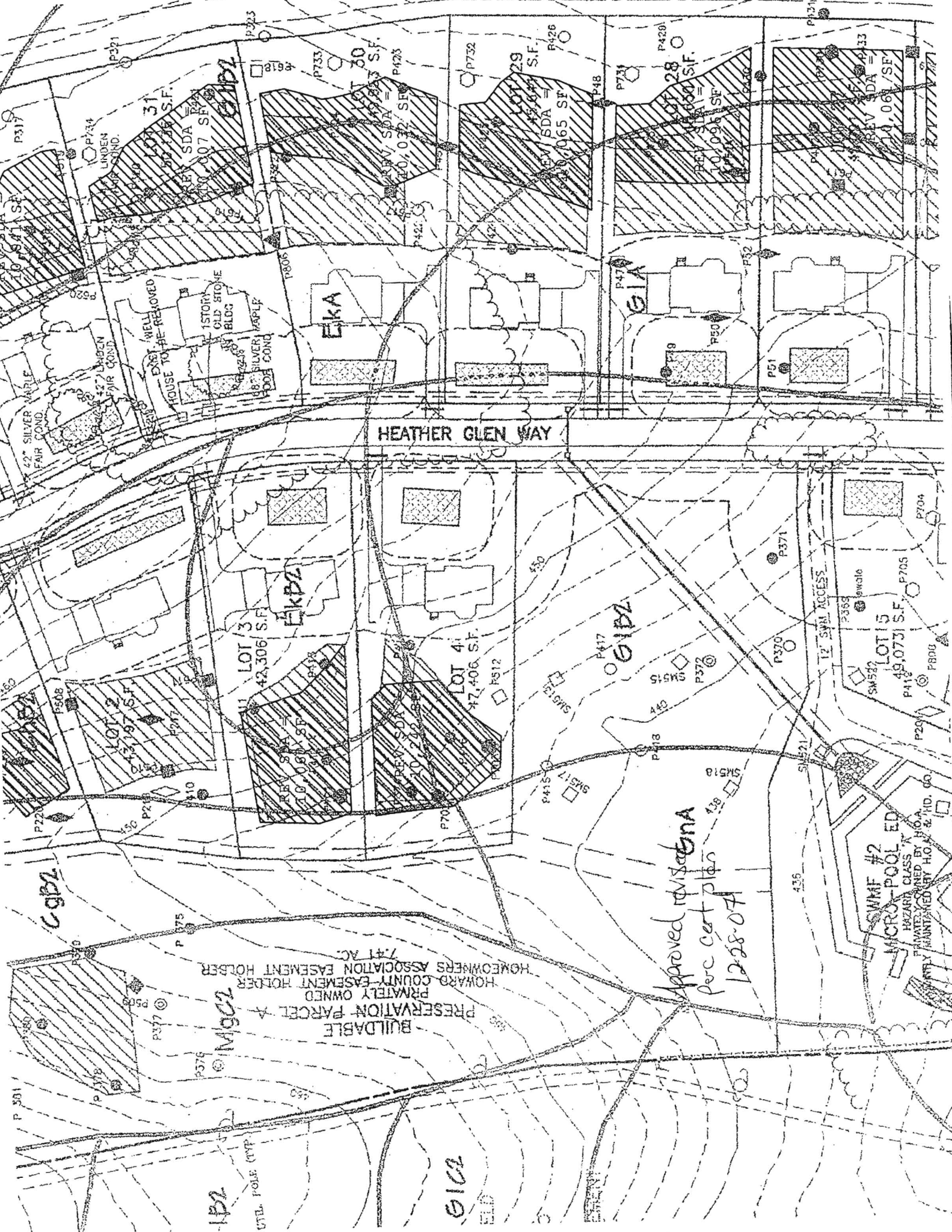
LOT 4  
17,406 S.F.

LOT 5  
49,073 S.F.

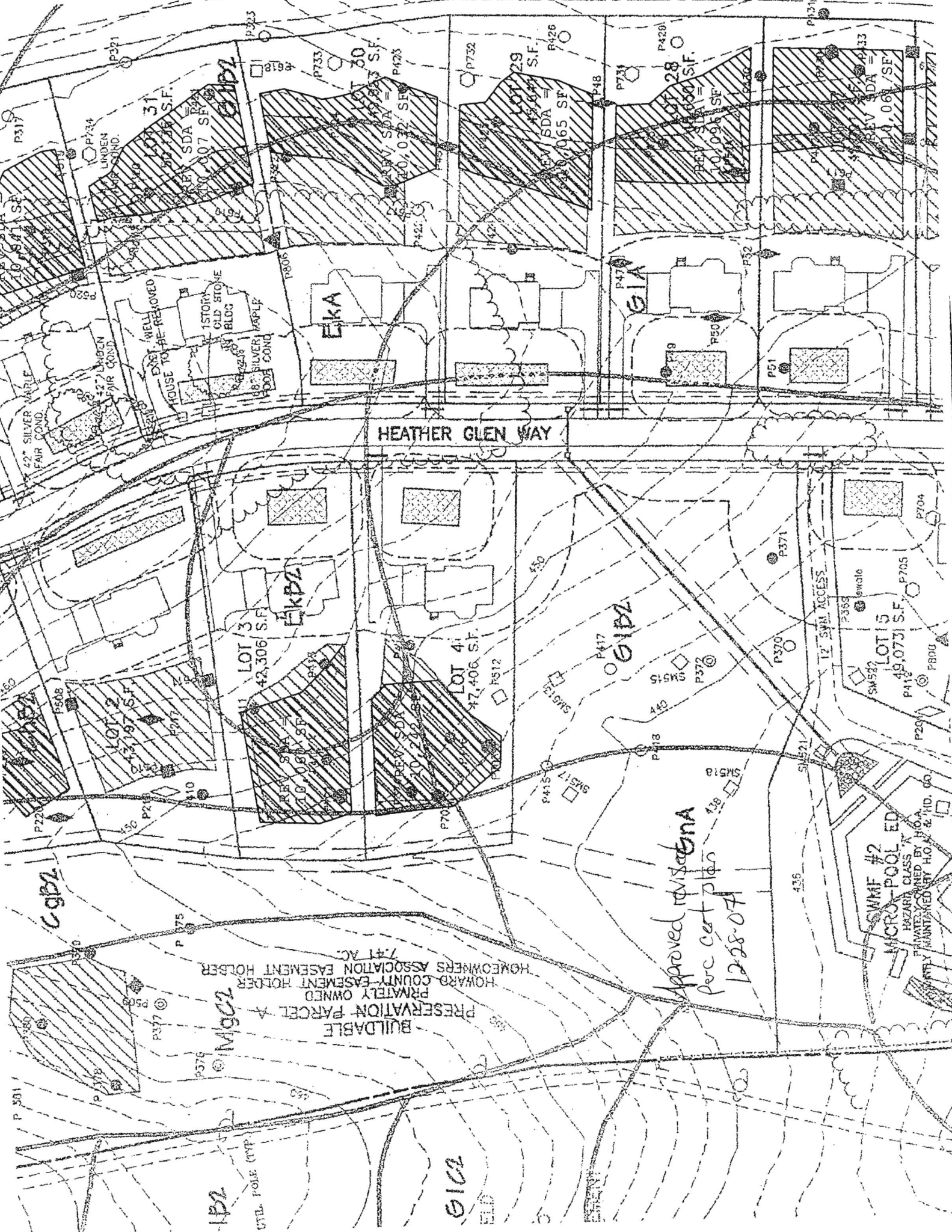
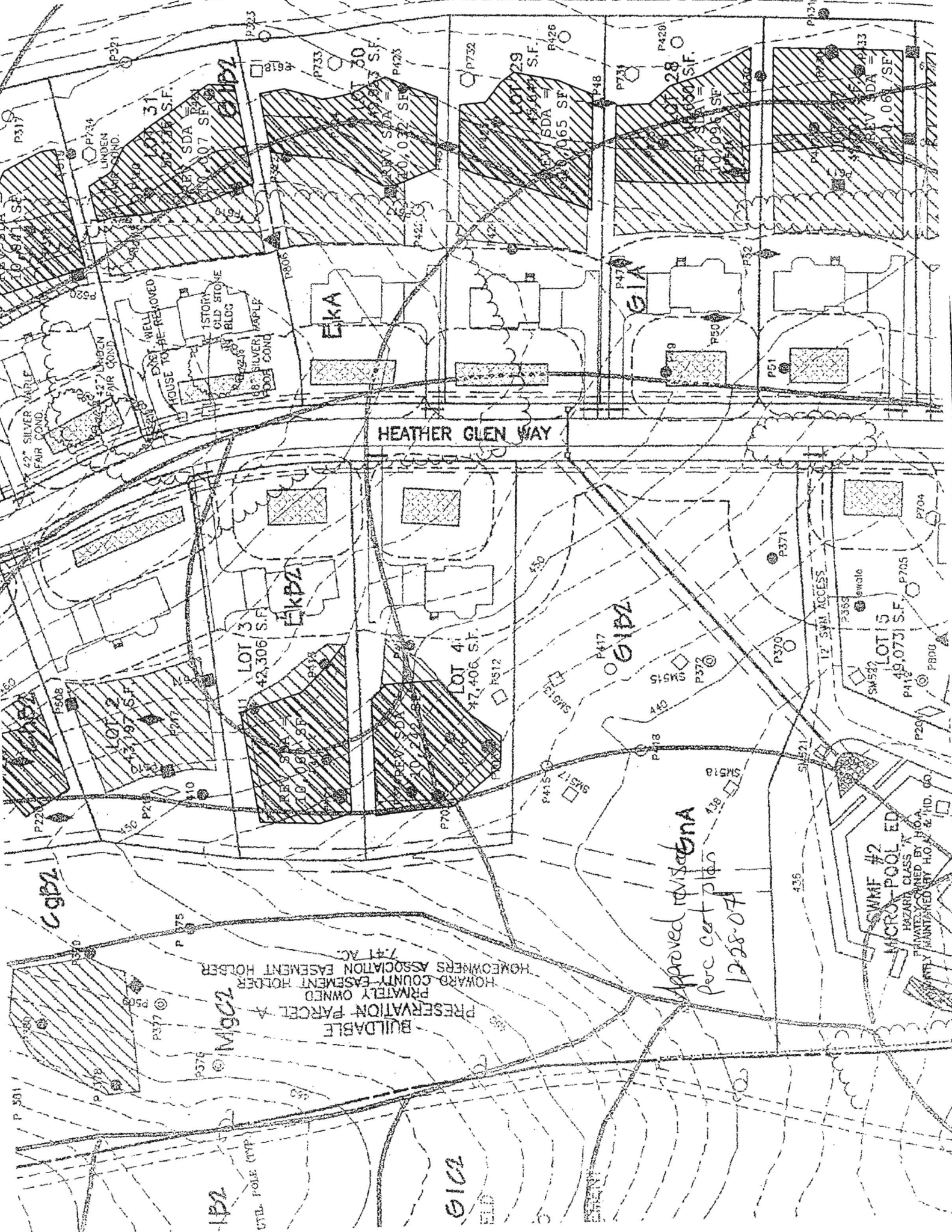
EKA

EKBZ

GIBZ



HOUSE TO BE REMOVED  
EXIST W/ELL  
1 STORY  
OLD STONE  
BLDG  
18" SILVER MAPLE  
100% COND



**Bricker, Robert**

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**From:** Bricker, Robert  
**Sent:** Tuesday, March 18, 2014 4:35 PM  
**To:** 'MARINAMORRIS@WILLIAMSBURGLLC.COM'  
**Subject:** B14000654\_6231 Heather Glen Way  
**Attachments:** BAT\_plan\_requirements\_12-6-2112[1].pdf

The referenced construction proposal is 'On Hold'.

The sewage disposal area (SDA) is illustrated in a different location than approved on the most recent Revised Percolation Certification Plan (6/4/2013). A revision of the BAT Site Plan is required. See attached PDF for Site Plan content requirements.

Also, the number of proposed bedrooms was not declared on the application form.

Submit a complete set of floor plans for the proposed residence directly to me at the Bureau of Environmental Health or as PDF via email. Submit to me a declaration of the number of bedrooms intended for the proposed residence under the referenced permit application.

ROBERT BRICKER, CPSS, REHS/RS  
ENVIRONMENTAL HEALTH SPECIALIST  
DEVELOPMENT COORDINATION SECTION, WELL AND SEPTIC PROGRAM  
HOWARD COUNTY BUREAU OF ENVIRONMENTAL HEALTH  
8930 STANFORD BOULEVARD  
COLUMBIA, MD 21045

410-313-2691; fax, 410-313-2648  
[rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov)

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COUNTY #

SOIL PROFILE

(730)

Red Br Cl Loam

Red Br and Beige Sa Loam

Trace Rock ~15% Saprolite

Caving Water

(729)

Red Br Cl Loam

Red Br Si Loam and Beige Sa Loam Trace Rock

Med Br Sa Loam Trace Rock

Water Seepage

Water

(727)

Red Br Cl Loam

Red Br Si Cl Loam

Red Br Si Loam

SOIL PROFILE

(728)

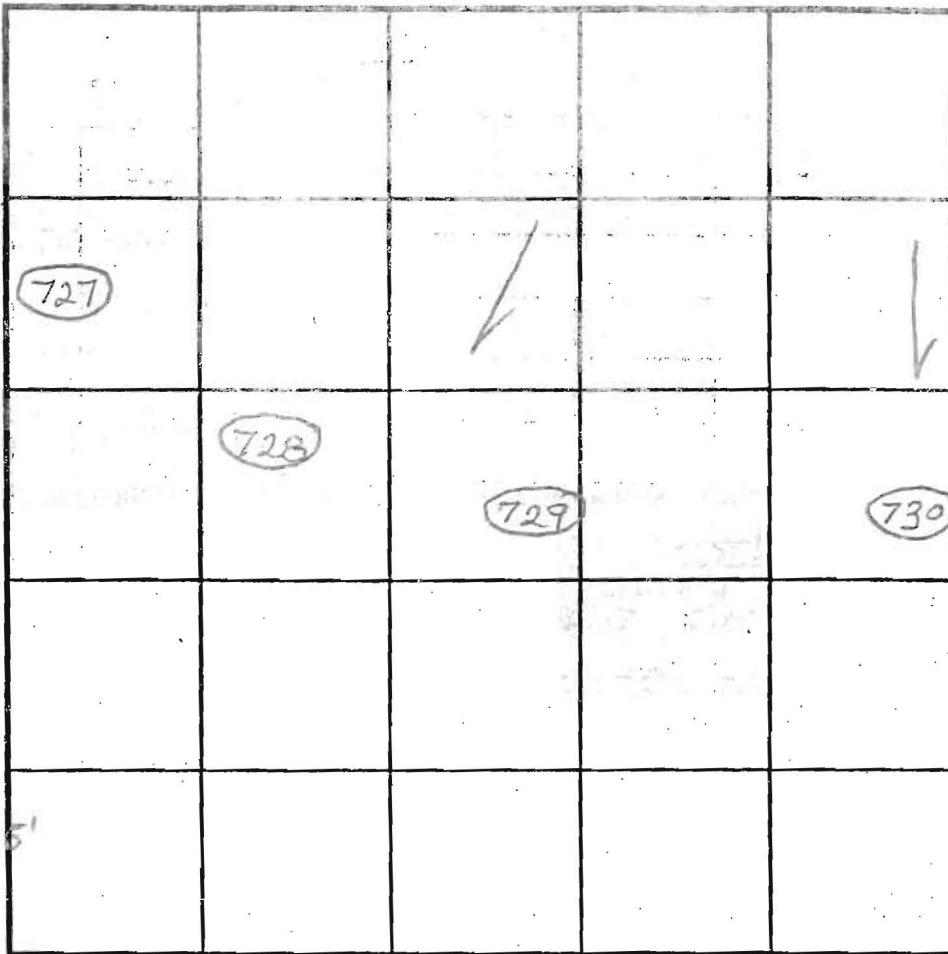
Red Br Cl Loam

Red Br Si Loam and Beige Sa Loam

Trace Rock Med Br Sa Loam Trace Rock

Caving

Water



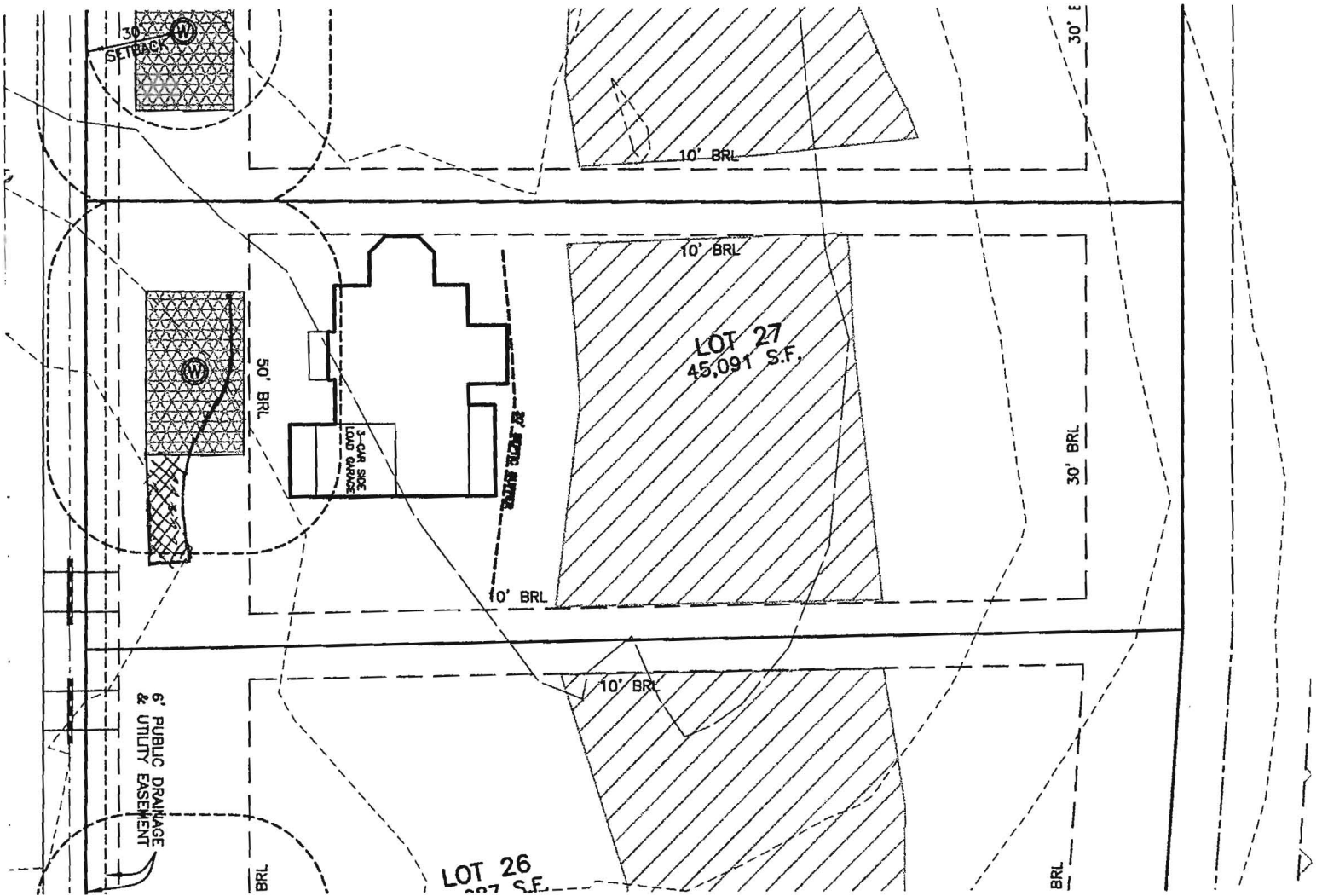
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME		
			START	STOP	START	STOP			
6/3/2004	730	12.5'					0.1K		
	729	4'/12.5'	10:55	10:59:30	10:59:30	11:05	5 1/2	O.K.	
	727	4.5'/10.5'	11:13	11:17:30	11:17:30	11:24:30	7	(F)	
	728	3'9"/10.5'	11:27	11:32	11:32	11:41:30	9 1/2	(F)	
		Move Up Hill, Surrounding							←
		Holes May Not Have Good							
		Perc. Rates at 4'							

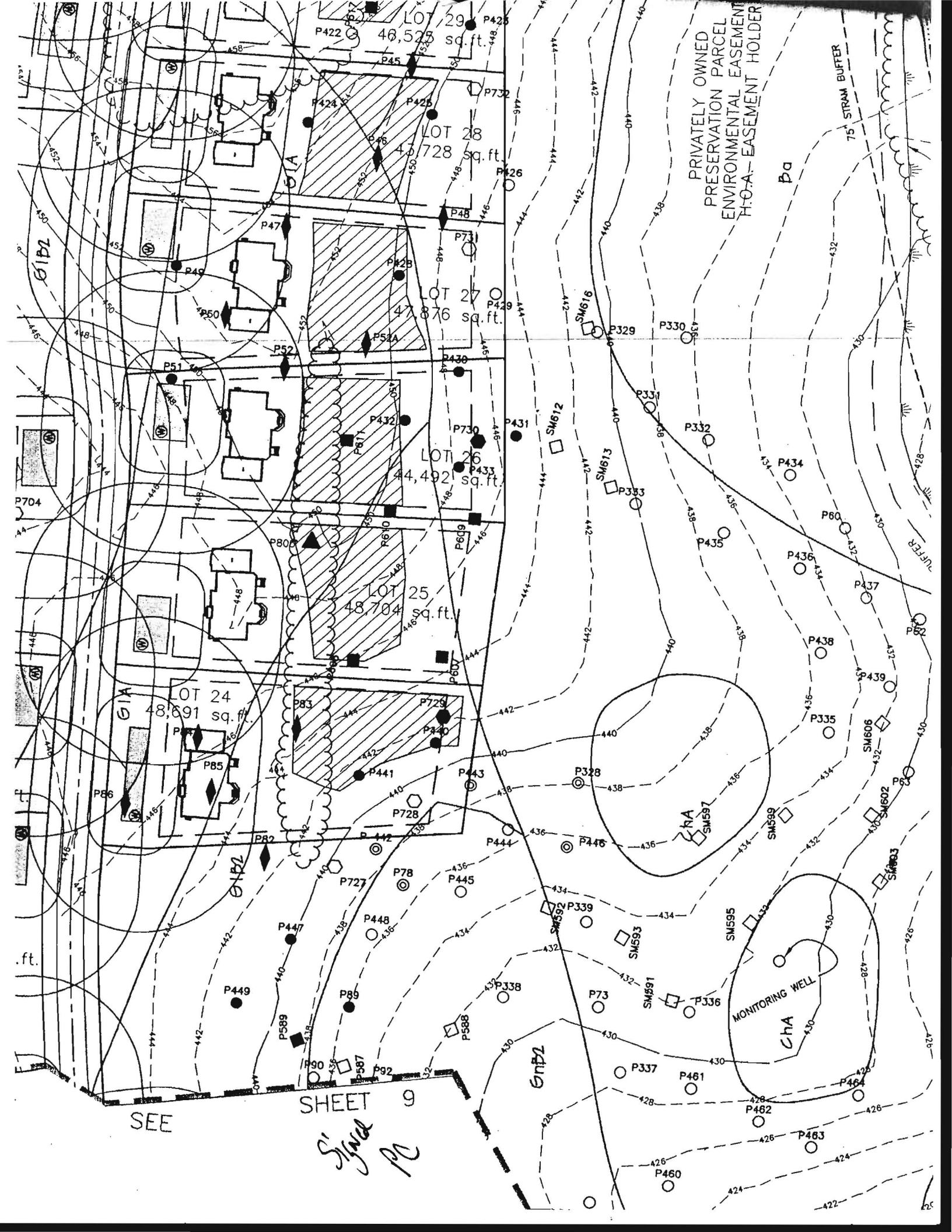
INLET DEPTH

MAXIMUM BOTTOM DEPTH

SQ. FT./BEDROOM



Pres. @ clients  
 - 3 well sites on rev. pc  
 5/8/13  
 PC



PRIVATELY OWNED  
PRESERVATION PARCEL  
ENVIRONMENTAL EASEMENT  
H.O.A. - EASEMENT HOLDER

Pa

75' STREAM BUFFER

LOT 24  
48,691 sq. ft.

LOT 26  
44,492 sq. ft.

LOT 25  
48,704 sq. ft.

LOT 27  
47,876 sq. ft.

LOT 28  
43,728 sq. ft.

LOT 29  
48,525 sq. ft.

MONITORING WELL  
ChA

SEE

SHEET 9

S' and P