

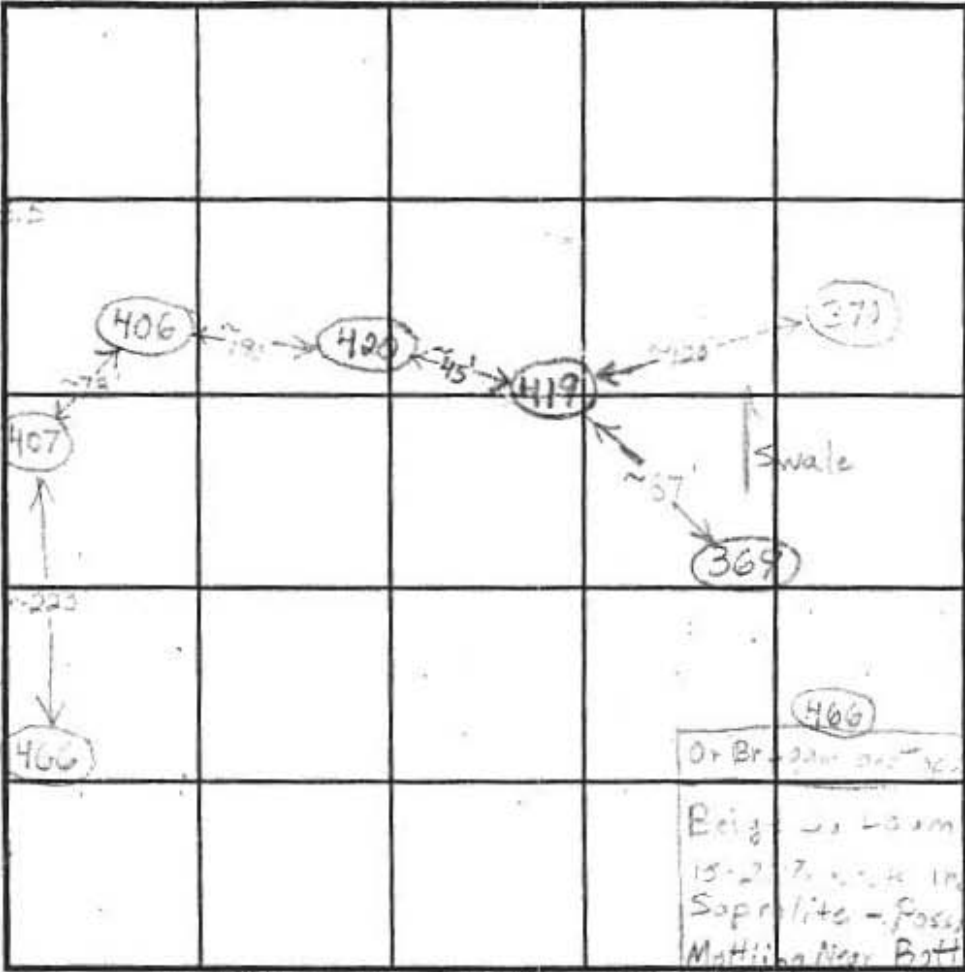
COUNTY #

SOIL PROFILE

0'
 1.5'
 3'
 4.5'
 6'
 7.5'
 9'
 10.5'

420
 Dr Br - 2.0m
 Med Br
 Mottled Water

407
 Red Br
 Grassy Lm
 Dr Br Lm
 4-9.5'
 Med for
 13'



466
 Dr Br - 2.0m
 Beige - 2.0m
 15-20% ...
 Saprolite - Possible
 Mottling Near Bottom

SOIL PROFILE

0'
 1.5'
 3'
 4.5'
 6'
 7.5'
 9'
 10.5'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
4/11/03	419	5' / 11.5V	12:38	12:40:30	12:40:30	12:41	3 1/2	Marg.
		7' 3"	12:38	12:37	12:37	12:41:30	2' 3/4	
	420	4.5' / 13V	1:03:15	1:10:15	1:10:15	1:19:45	9 1/2	O.K.
		7' 8"	1:01	1:04	1:34	1:39	5'	
	457	5' 3" / 13V	1:20:30	~ 3/4" in 3 1/2 minutes			Slow	Marg.
		7.5'	1:28	1:37:45	1:37:45	1:51:45	14 1/2	
		6' 7"	3:29:30	3:34	3:34	3:41	7	
	406	6' V					(F)	
	466	4' / 13V	2:26:30	2:28:45	2:28:45	2:32:45	3 1/2	O.K.
		7' 3"	2:04:15	2:11:45	2:11:45	2:22:45	10 1/2	

REMARKS Hole 420 Marked as 199

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 _____

AP
807
Brown L
1 1/2'
Red/Brown
Silt
2 1/2'
Orange/Brown
Silt
6'
White/Grey
Silt
9'
Red/Brown
Silt
3'
Brown/Brown
Silt - sand
15 1/2'

806
Brown L
1'
Red/Brown
Silt
3 1/2'
Yellow/Brown
Silt w/ mica
Brown
15'

800
Brown L
1'
Red/Brown
Brown
Silt
4'
Yellow/Grey
Silt w/
L50% platy
grains
11'

10' 20' 30' 40' 50'

81

800E
Brown L
1'
Red/Brown
Silt
2'
Brown/Black
Silt
8'
Brown/Grey
Silt w/ mica
Silt
14'

808
Brown L
1'
Yellow/Brown
Brown
Silt
2 1/2'
Yellow/Brown
Brown
Silt
10 1/2'
Water
15 1/2'

805
Brown L
1'
Brown/Red
Orange
Silt
2 1/2'
Yellow/Brown
Silt w/
trace
fine
11'

800A
Brown L
1'
Red/Brown
Orange
Silt
4 1/2'
Brown/Grey
Yellow/Brown
Silt
11'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
8/30/01	807	8' / 15 1/2'	8:40	8:52	9:08	16min	P
	806	8 1/2' / 15'	9:27	9:30	9:35	5min	P
	800	4' / 10'	9:49	-Pulled	10:23		F
	802	4' / 13 1/2'	10:03	10:05	10:08	3min	P
	805	3 1/2' / 14'	10:14	10:16	10:19	3min	P
	800B	4 1/2' / 14'	1:05	1:09	1:12	3min	P
	800A	-Visual					F

REMARKS 21 min dig for flow - 800 - no discernible flow
 SANITARIAN DR: PP BACKHOE Leanne OTHERS
 TEST HOLES USED IN SDA _____ AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SAW _____

COUNTY #

SOIL PROFILE

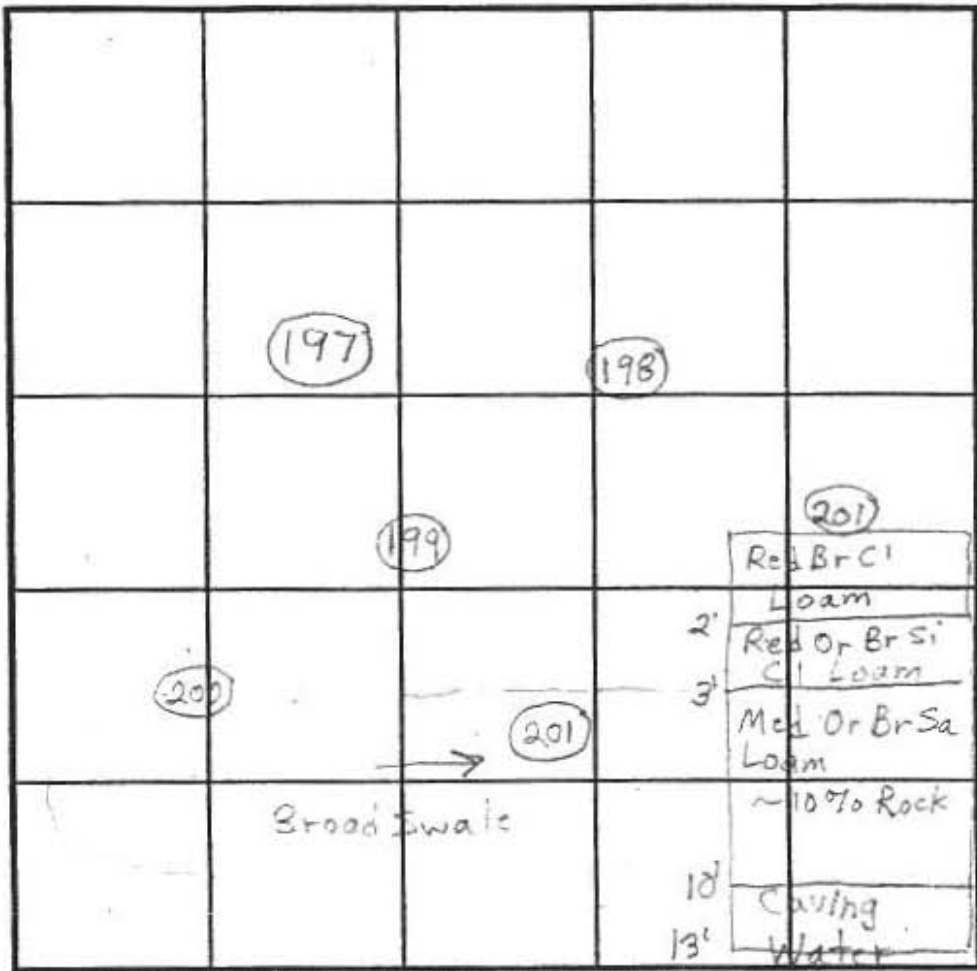
0' Red Br
Cl Loam
3-5' Or Br
Si Cl Loam
6.5'
15' Tan and
Red Si Loam
~10%
Rock

(199)

3' Red Br Si
Loam
4-5' Red Br Si
Cl Loam
15.5' Brown and
Reddish
Brown
Si Loam
10-15%
Rock

(198)

3.5-4' Red Br
Clay Loam
3-3.5' Red or Br
Si Cl Loam
Light Br
sa Loam
~10%
Rock



SOIL PROFILE

0' Red Br
Cl Loam
2.5' Or Br Si
Cl Loam
3.5' Light Br
Si Loam
and Or
Br Sa
loams
~10%
Rock

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Ten Oaks Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/29/01	*197	4.5'/15'V	2:02	- Pulled, Slow →		Slow	
	199	6.5'G/15.5'V	2:15	2:17	2:17	2:19:30	2 1/2 OK
	198	5.5'/15.5'V	2:32	2:35	2:35	2:42	7 OK
	197	5.5'V	2:37	2:45	2:45	3:07	22 OK
	200	4.5'-5'/15'V	2:50	2:51	2:51	2:54	3 OK
	201	4'-4.5'/13'V	3:09			3:10:30	1 1/2 Total
		Repair	3:11	3:11:40	3:11:40	3:12:45	1 min 5 sec (F)
		Repair	3:13:20	3:14:15	3:14:15	3:15:35	1 min 20 sec
		Repair	3:16:30	3:17:40	3:17:40	3:19:10	1 1/2
		Fail due to	Fast rate. Also, needs WS test				

REMARKS *197-dig deeper shelf for further review

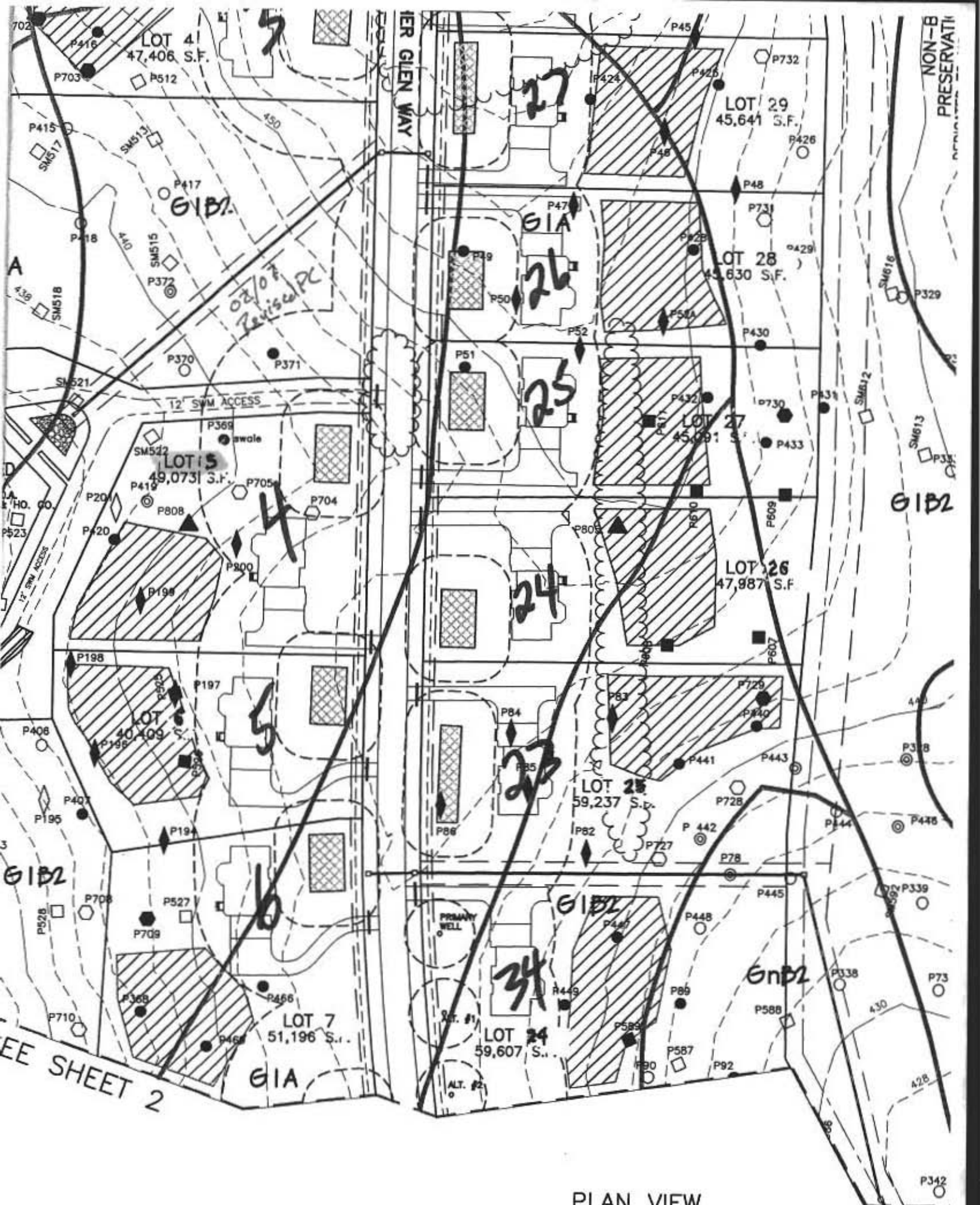
TYPE OF SOIL

TESTED BY Brian Baker

ALSO PRESENT HATFIELDS - Lab


TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH



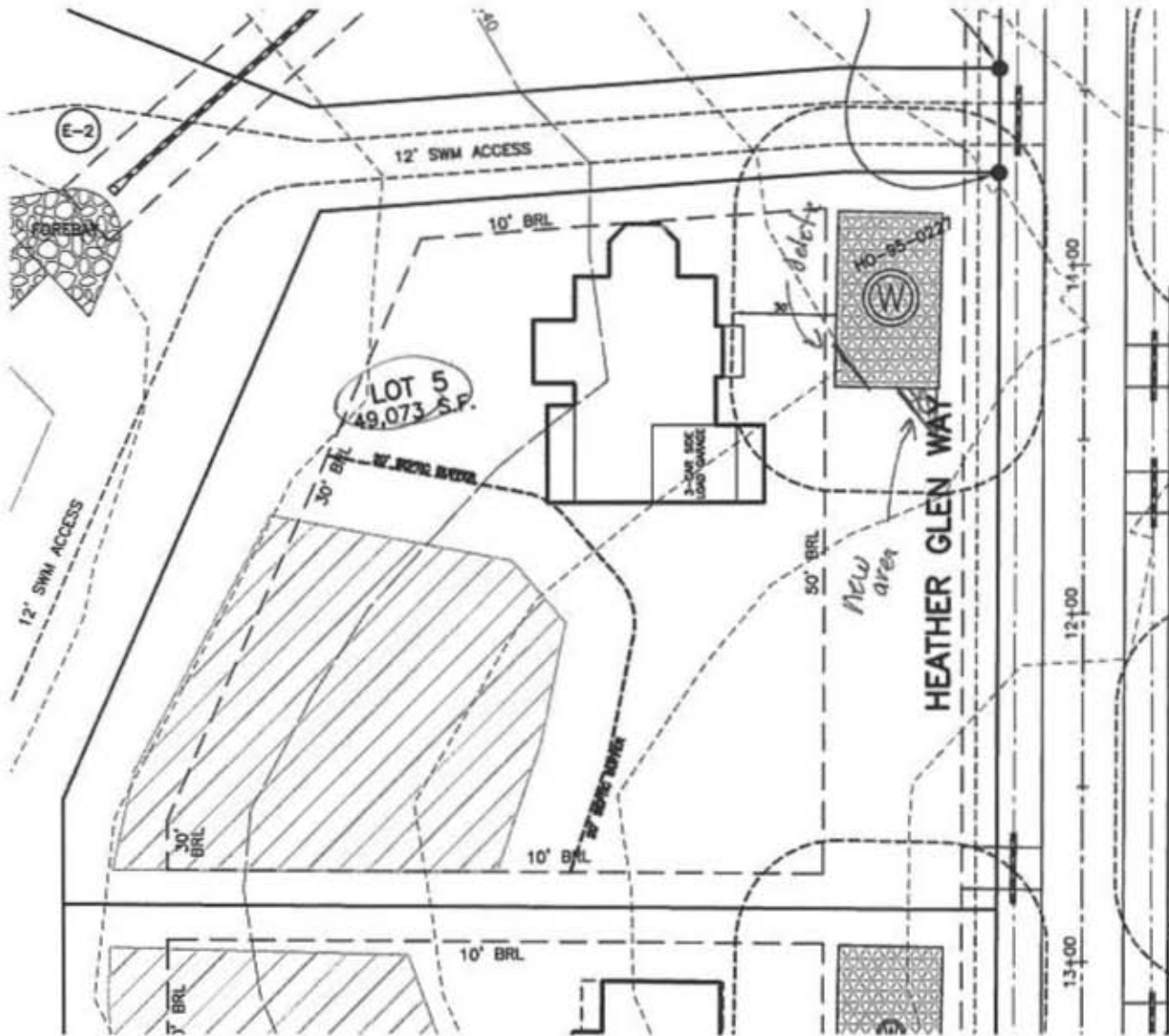
PLAN VIEW
 SCALE: 1" = 100'

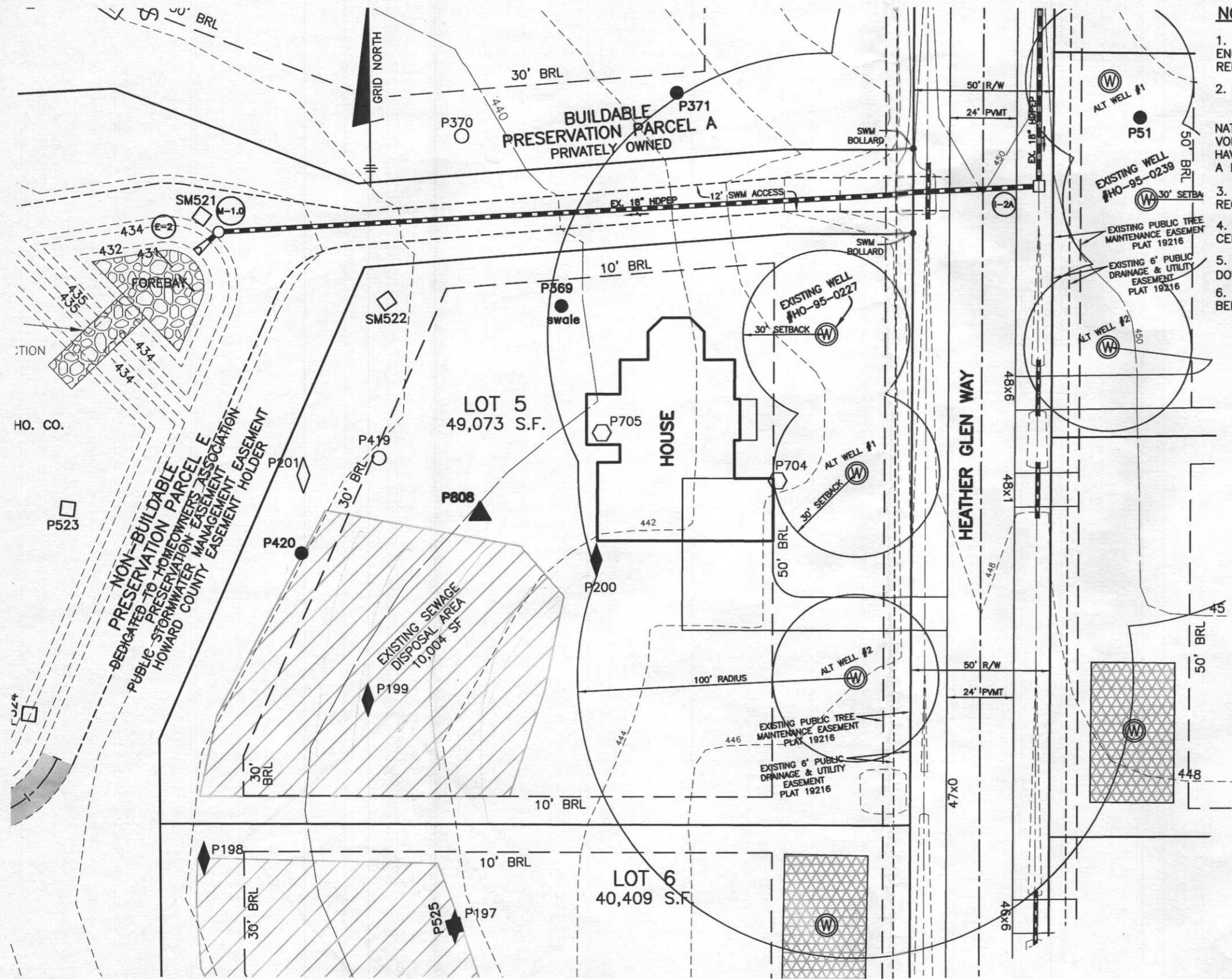
reserve @ Clark's

- Switch to 3 well sites on rev. pc
↳ front  bumpout is a porch w/ no found. - can be closer than 30' to well


Well Box ADJUSTMENT











Jo
5/3/13





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-95-0227) HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC. AND IS ACCURATELY SHOWN.

-  PASSED TEST HOLE TESTED NOV-DEC 2001
-  FAILED 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
-  FAILED TEST HOLE TESTED JUNE 2004
-  PASSED TEST HOLE TESTED AUGUST 2004
-  WELL LOCATION
-  1,500 SF WELL BOX

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

THE PRESERVE AT CLARKSVILLE LOT 5	
6234 HEATHER GLEN WAY TAX MAP: 34 GRID: PARCEL: 77 5th ELECTION DISTRICT HOWARD COUNTY, MARYLAND	
REVISED PERCOLATION CERTIFICATION PLAN	
DATE: MAY 31, 2013	BEI PROJECT NO. 1407-W
SCALE: 1" = 40'	DRAWING 1 OF 1

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.

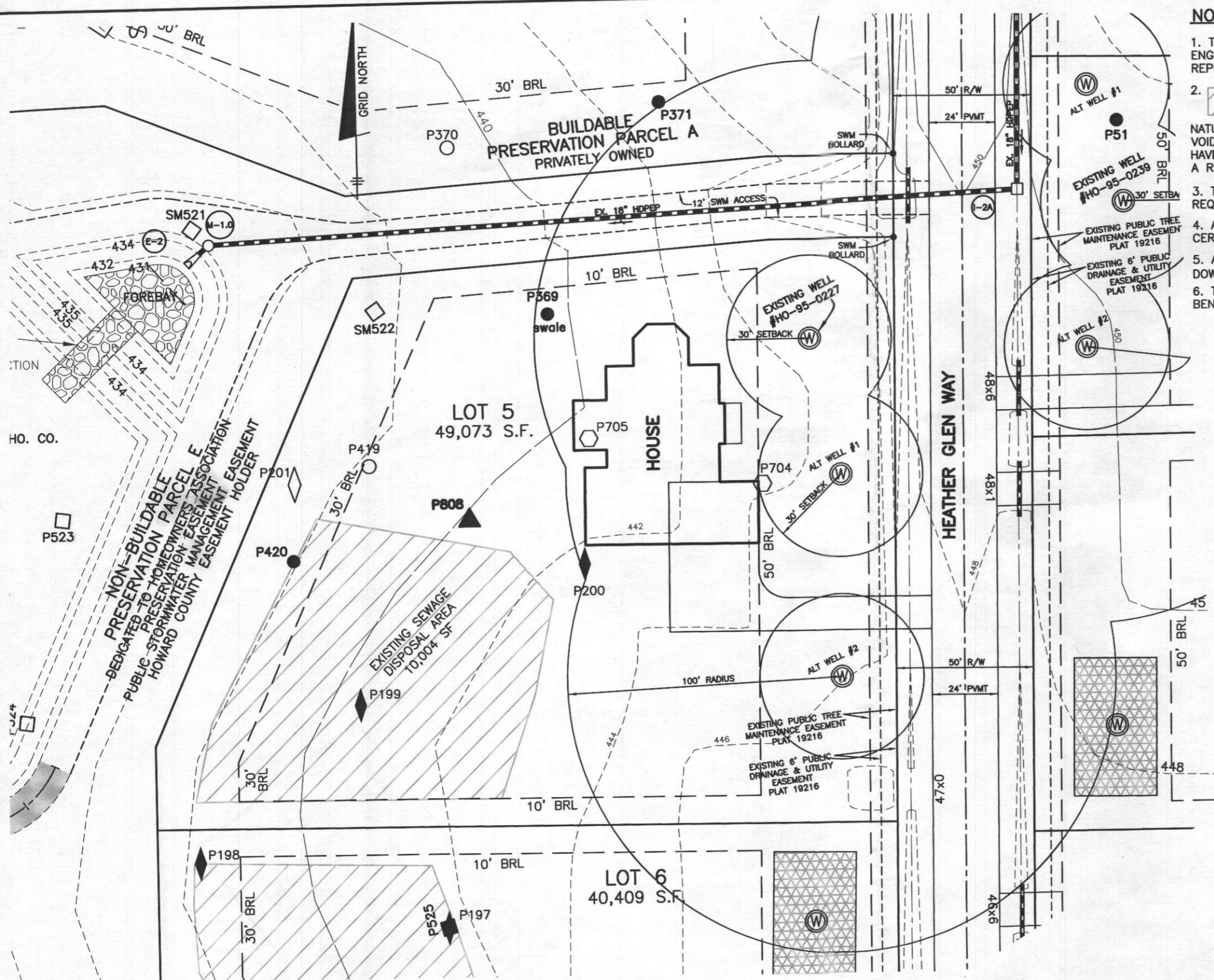
8480 BALTIMORE NATIONAL PIKE ▲ SUITE 315 ▲ ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 (F) 410-465-6644

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS


Maureen Rosman 6/4/13
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE











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



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 CLARKSVILLE
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 TAX MAP: 34 GRID: PARCEL: 77
 5th ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

**REVISED PERCOLATION
 CERTIFICATION PLAN**

DATE: MAY 31, 2013 BEI PROJECT NO. 1407-W
 SCALE: 1" = 40' DRAWING 1 OF 1

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

David Thompson
 HEALTH OFFICER, HO. CO. HEALTH DEPT. DATE: 6/4/2013

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