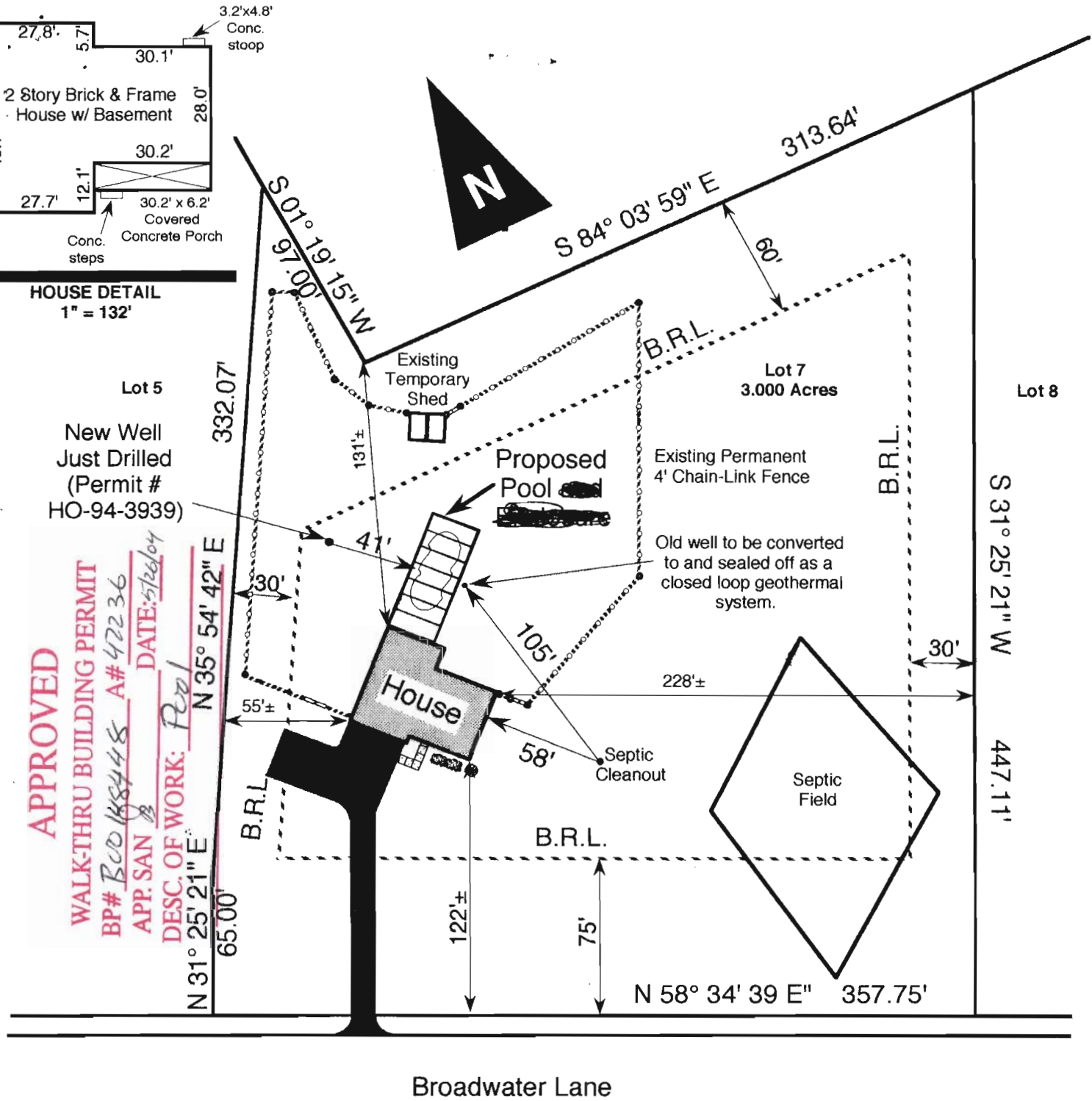
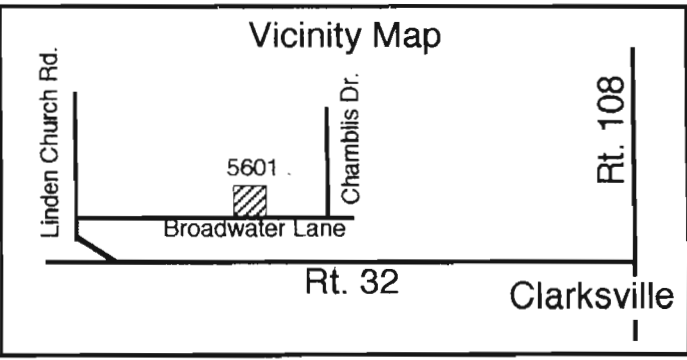
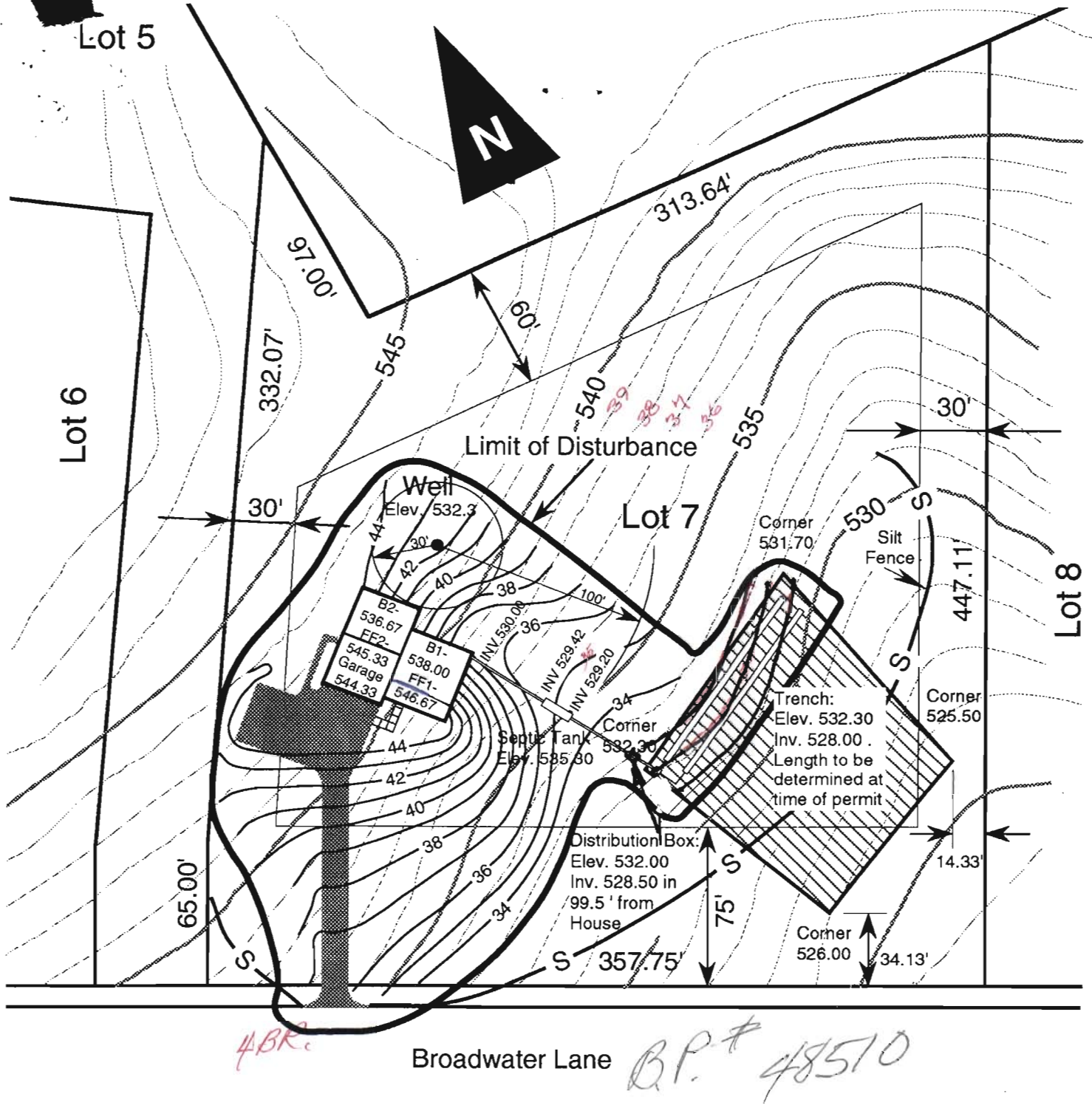


**HOUSE DETAIL**  
 1" = 132'



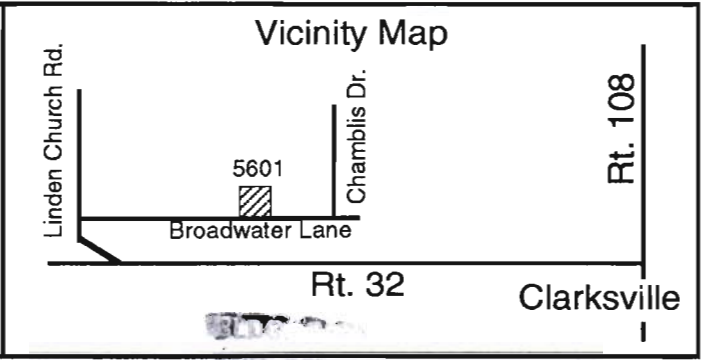
**Plot Plan**  
 Lot 7 • Adams Reach • Unit 1  
 5601 Broadwater Lane • Clarksville, MD  
 Alan & Carol Plumley  
 May 2004  
 Scale: 1" = 66'



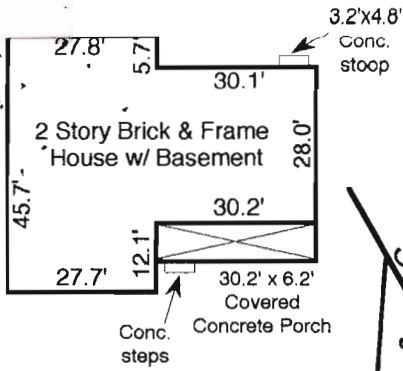


**Site Plan**

Lot 7 • Adams Reach • Unit 1  
 5601 Broadwater Lane • Clarksville, MD  
 Alan & Carol Plumley  
 April 1993  
 Scale: 1" = 65.5'



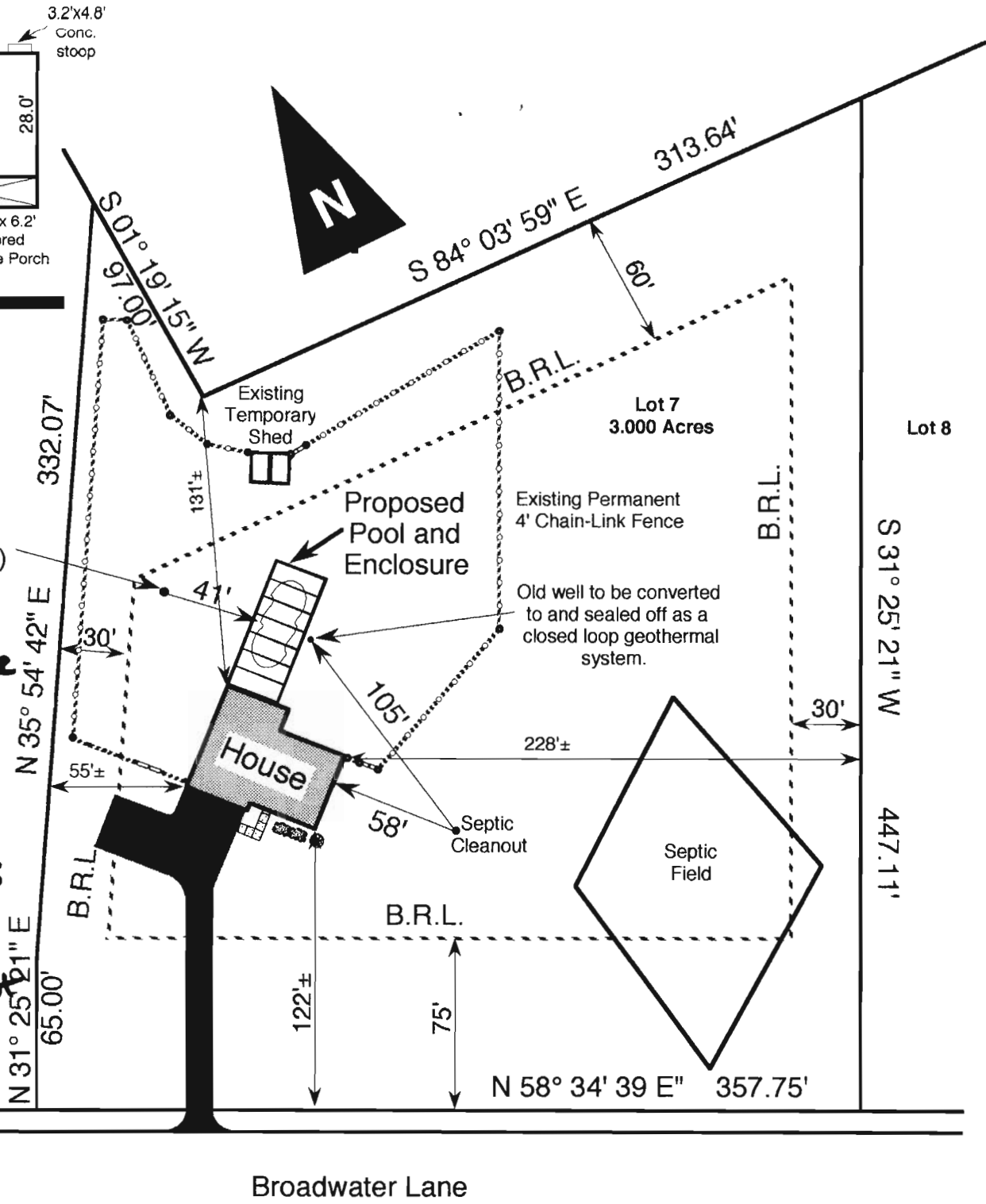
*new house in 5/7*



HOUSE DETAIL  
1" = 132'

*800148762*

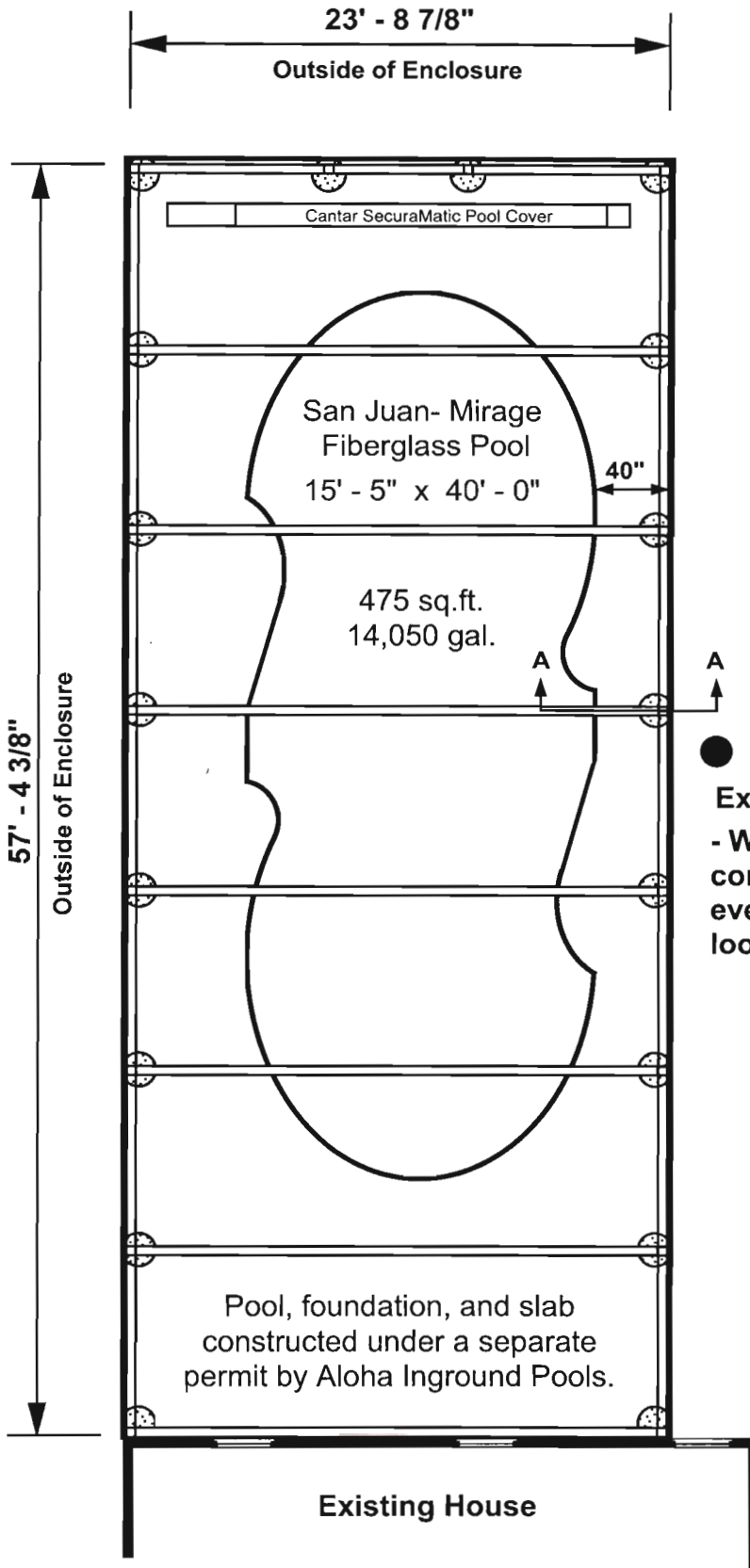
**6/11/04**  
**Enclosure**  
**OK.**  
Will call  
owner to  
verify  
old well's  
status  
in 60  
days if not  
done already **(KN)**



Broadwater Lane

**Plot Plan**  
 Lot 7 • Adams Reach • Unit 1  
 5601 Broadwater Lane • Clarksville, MD  
 Alan & Carol Plumley  
 May 2004  
 Scale: 1" = 66'

**Vicinity Map**



**Aluminum Frame Enclosure  
from Carolina Solar Structures**

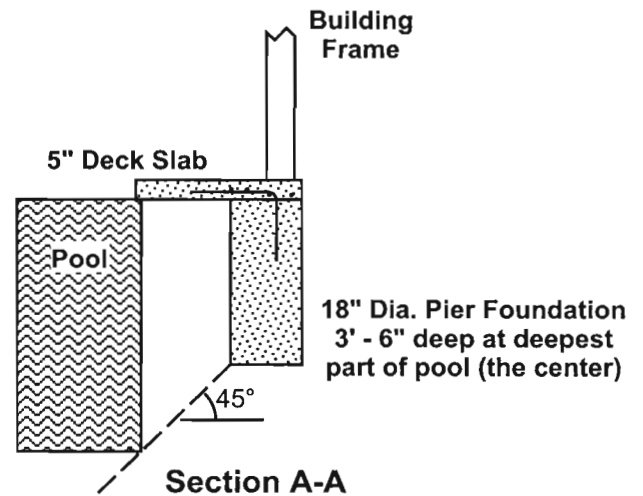
**Walls:** Double-pane sliding  
glass/screen doors and triple-wall  
polycarbonate thermoglazing (2.5R)  
in alternating bays.

**Roof:** Triple-wall polycarbonate  
thermoglazing (2.5R) with four  
retracting roof panels for ventilation.

See drawings from  
Carolina Solar Structures  
for more details.

**Existing Well**

- Will be converted before  
construction begins for  
eventual use with a closed  
loop geothermal heat pump



## General Notes to Accompany Building Permit Application for Addition to Residence

Alan Plumley  
5601 Broadwater Lane, Clarksville, MD 21029  
Office: (202) 874-0508 • Home: (410) 531-1373  
28 May 2004

Nature of the addition: A greenhouse-type enclosure erected on a pool deck (which is being constructed by Aloha Inground Pools of Pylesville, Maryland under permit # B00148448) and attached to the house.

Enclosure: Roughly 24'x57' aluminum gable frame enclosure manufactured by Carolina Solar Structures (<http://www.carolinasolar.com>). The roof and alternating wall bays will be made of triple-wall polycarbonate sheets. The remaining wall bays will be double-pane sliding glass doors. The roof will have 4 large polycarbonate panels that will open for ventilation. See the attached drawings.

Construction drawings: Sealed engineer's drawings for the enclosure are attached.

Foundation: The enclosure will be supported on a foundation and slab constructed under the pool permit, and will consist of 18" diameter piers, each of which will be set to a depth below the original grade, below the frost line, and low enough relative to the pool to ensure that a 45° line from the bottom of the pier inward toward the pool will be lower than the pool at that location. An edge beam will connect the piers and provide support for the sliding glass doors. Two closed loops of 1/2" plastic tubing will be placed at the bottom of the slab for a radiant heating system.

Construction: The pool enclosure will be erected on the finished slab by the owner, Alan Plumley.

Pool cover: The pool will be fitted with a Cantar SecuraMatic automatic cover (<http://www.cantar.com>), which will operate with a key. This will avoid the need for an alarm system on the doors to the enclosure.

Well: The current well, which is located next to the construction site, will be converted to a closed-loop geothermal system, and will be fully grouted to the bottom before any construction takes place. The replacement well has already been drilled. This has been coordinated with the Howard County Department of Health (Mr. John Boris, (410) 313-1771).

Please call Alan Plumley at (202) 874-0508 M-F 8:00 – 4:30 if you need further information.

Alan H. Plumley  
5601 Broadwater Lane  
Clarksville, MD 21029  
(410) 531-1373

29 March 2004

Mr. John Borif  
Howard County Health Department  
3525H Ellicott Mills Drive  
Ellicott City, MD 21043

Dear Mr. Borif,

I am investigating the possibility of constructing a swimming pool on my property (Adam's Reach, Lot 7). Specifically, I would like to have a fiberglass pool installed close enough to my house that I could enclose the pool and attach the enclosure to my house, enabling us to use the pool year 'round. I have learned, however, that you require that pools be located at least 30 feet away from wells. As you can see from the attached drawing, my well is very close to where I would like to install the pool. In my case, though, I believe that none of your concerns about possible well contamination will apply, so I am writing to request a variance from your 30 ft. rule.

Here are the reasons why I believe my pool's close proximity to my well will be acceptable to you:

1. Fiberglass Pool: The pool I hope to install is a fiberglass pool manufactured by San Juan Pools (see <http://www.sanjuanpools.com>). These pools have numerous advantages over other pools, several of which address your concerns:
  - a. No Leakage: Unlike a concrete or vinyl pool, fiberglass pools (and San Juan's in particular) do not leak. They remain watertight indefinitely, even if the ground shifts significantly.
  - b. Less Chemical Usage: Since fiberglass pools are chemically inert, they do not react with the water or sun. Therefore, they require at least 70% less chemical usage to keep the water pure.
  - c. No Acid Washing: The smooth, non-porous, permanent finish of a fiberglass pool never needs acid washing, or other strong cleaning. In fact, fiberglass pools never need to be emptied.

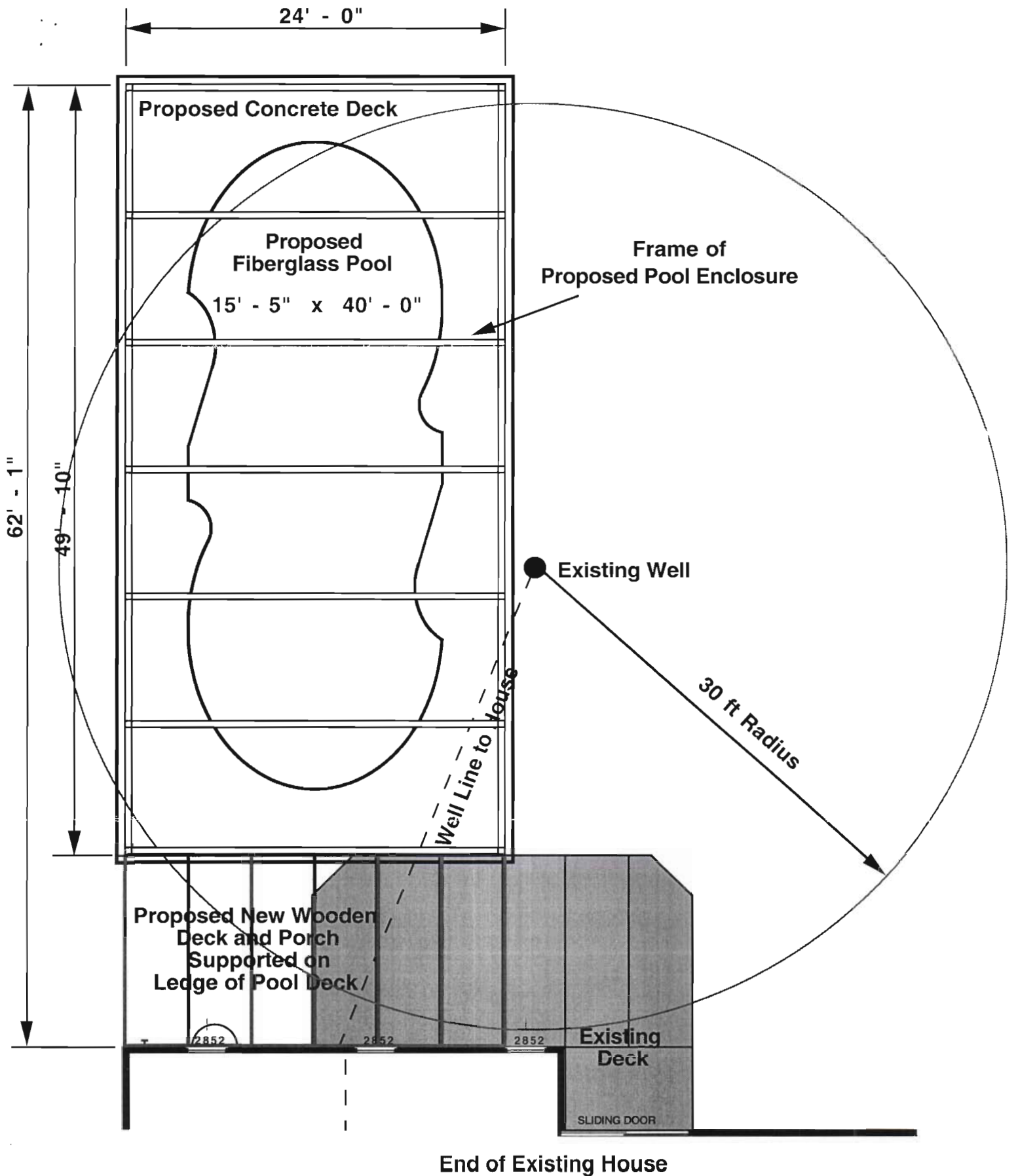
2. Indoor Pool: There are two additional advantages to having a permanent enclosure around the pool.
  - a. No Splashing Onto Soil: Whatever water is splashed outside of the pool (and doesn't evaporate) will be channeled through surface drains built into the concrete deck, and discarded into our storm drain well beyond the 30-ft zone around the well.
  - b. Less Chemical Usage: Enclosed pools require much less treatment to maintain the water quality—particularly when they're covered when not in use. We plan to install an automatic pool cover over the surface of the water that will reduce not only chemical usage, but also energy costs.
3. Safer Equipment: I plan to install two pieces of pool maintenance equipment that will further reduce the kinds of threats that pool water can pose to wells.
  - a. Cartridge Filter: I plan to install a Sta-Rite System 3 Mod Media filter (see <http://www.starite.com/>). In contrast with traditional sand filters, which generally require weekly backwashing (releasing dirty water onto the soil near the pool), these filters need only annual cleaning, which can be done by hand in a utility sink. No backwashing at all! This not only reduces maintenance time, but also eliminates a common environmental problem.
  - b. Ionization System: I plan to sanitize the water using a copper-silver ionization system. These systems require much less (if any) chemical usage. You can read independent descriptions of these kind of systems at the following two web sites:  
<http://www.state.ma.us/osd/enviro/products/watertreat.htm>  
<http://www.vtgreenhotels.org/articles/ionpool.htm>

In addition to these characteristics, I believe that it is noteworthy that my well is 400 ft deep. I doubt that a 30 ft difference on the surface will make much difference down that far, anyway. Given how environmentally “friendly” an enclosed fiberglass pool is, I am confident that you will agree to this request for a variance.

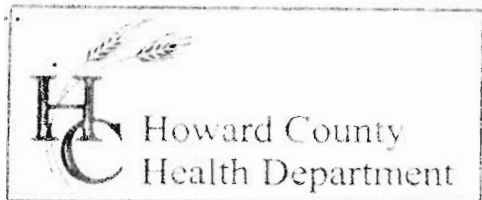
If you need any additional information to help you make this decision, please contact me. I appreciate your consideration of this application.

Sincerely,





Alan H.Plumley • 5601 Broadwater Lane, Clarksville, MD 21029  
 • 29 March 2004



3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

April 13, 2004

Mr. Alan H. Plumley  
5601 Broadwater Lane  
Clarksville, MD 21029

Dear Mr. Plumley:

This is in response to your letter dated March 29, 2004 requesting relief from the 30' setback for a potable well supply serving an existing dwelling for the purpose of constructing an enclosed pool.

The intent of the regulation is to protect the well supply not only in the interest of public health but also environmentally as well. Please read the regulation as it is noted in the Code of Maryland Regulations (COMAR) 26.04.04.05.B.2.a.iii,

*30 feet from a building foundation, for the purpose of protecting the well from a foundation or soil treated to control pests, insects, or vermin. A distance less than 30 feet may be considered in replacement of a well serving a lot which does not meet minimum lot ownership as defined in COMAR 26.04.03.*

After reviewing the file, it was noted that this is not a request for a replacement well and that your lot does indeed meet the minimum lot ownership requirement as stated in COMAR 26.04.03. Furthermore, your request does not specify the distance that you wish to offset the pool, or the "enclosure" that you wish to put around the pool. Therefore, your request is being **denied** on the grounds that you have not specified a distance setback, your well line will not be readily accessible, and you have not specified the construction material to be used for the enclosure.

The health department will entertain a reasonable setback that will allow access to all sides of the wellhead. If you wish to further pursue this matter, please submit a scaled site plan and a list of the construction materials that are to be used for the enclosure.

If you have any questions pertaining to this matter please feel free to contact me at (410) 313-1771. I look forward to assisting you in the resolution of this matter.

Respectfully,

A handwritten signature in cursive script, appearing to read 'John A. Boris, Jr.', is written over the typed name.

John A. Boris, Jr., R.S.  
Development Coordination Section  
Well and Septic Program

cc: Barry Glotfelty, MDE  
File

JAB

10 AM  
5/3/04

SITE INSPECTION SHEET

OWNER: Alan Plumley PHONE #: 410-531-1373

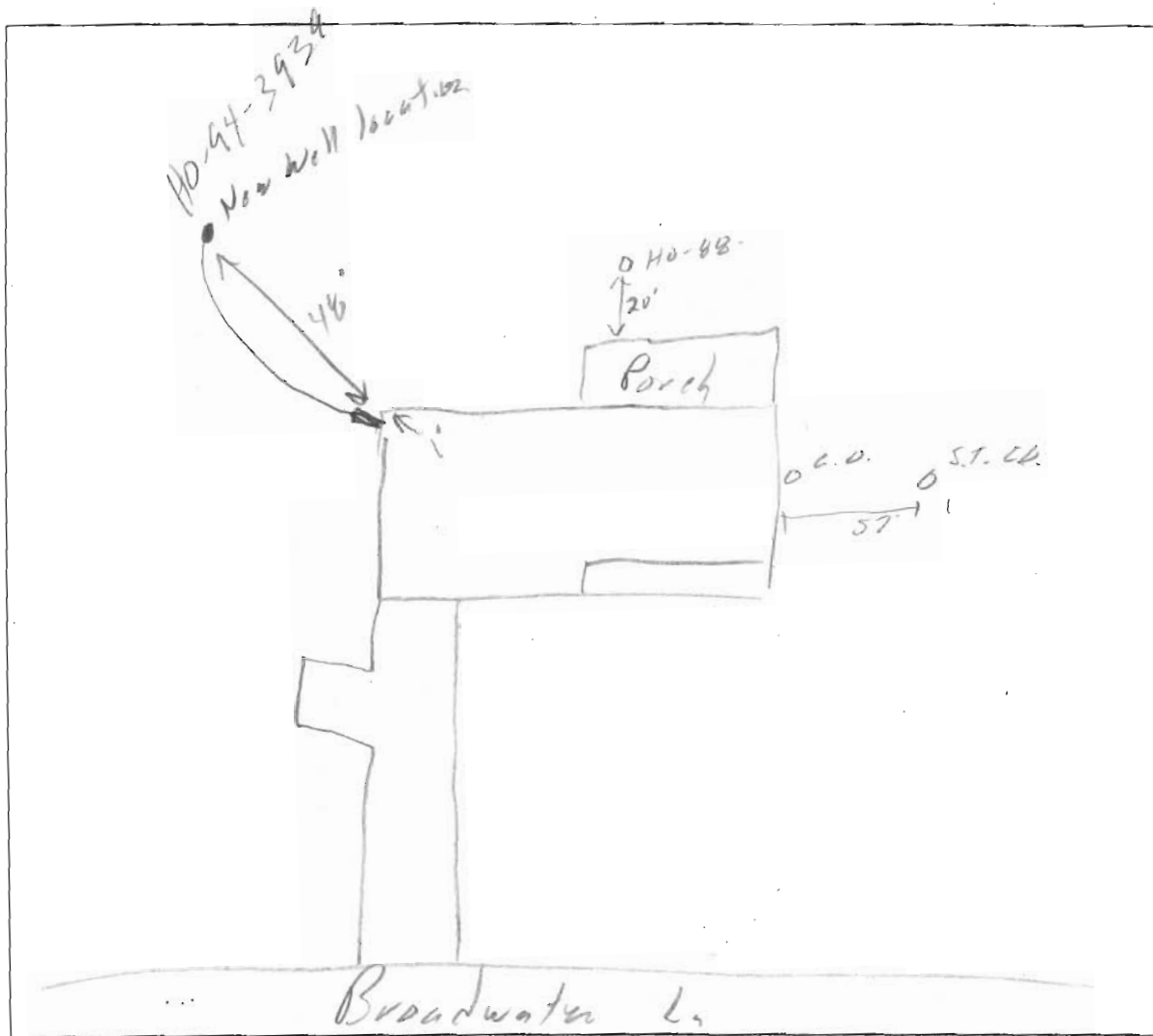
ADDRESS: 5601 Broadwater Lane CONTRACTOR: J. Mayne

WELL TAG #: \_\_\_\_\_

SUBDIVISION: Adams Reach I LOT: 7 COUNTY #: \_\_\_\_\_

PROPOSAL: Drill new well - building addition

LOCATION DIAGRAM



COMMENTS: No other wells & septic w/in 100'

Well site OK

Moving well to install a pool.

DATE: 5/3/04 INSPECTOR: S.O.

# FILE INQUIRY FORM

Property Address: 558 R Obraht Rd.

Sykesville MD 21784

Talked to owner about A proposed pool location  
closer than 30' to well. Told him to request  
a variance to be less than 30' & show on plan well  
location + proposed pool. - to be addressed to John Bennis

3/23/04  
RB