

B 1 25734

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-14-0140

fill in this form completely

Date Received (APA)

10/31/14

OWNER INFORMATION

Ortel TIE Scott + Margaret 2825 Rolling Fork Way Glenwood MD 21738

B 3

LOCATION OF WELL

Howard County Gwyndyl Oak Estates SECTION 44 46 LOT 7 48 50 Glenwood NEAREST TOWN

DRILLER INFORMATION

C John Hess MW D 553 Allied Environmental Services P.O. Box 129 Annapolis Junction MD 20701 10/30/14

B 4

SOURCES OF DRILLING WATER

1. Public

2825 Rolling Fork Way

STREET ADDRESS

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD

ENTER FT OR MI

TAX MAP: 004 BLK: 001 PARCEL 023

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
INDUSTRIAL, COMMERCIAL, DEWATERING
PUBLIC WATER SUPPLY WELL
TEST, OBSERVATION, MONITORING
OPEN LOOP GEOTHERMAL
CLOSED LOOP GEOTHERMAL

4 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard County Signature DATE ISSUED 11/18/2014 EXP DATE 11/18/15

APPROXIMATE DEPTH OF WELL 320 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) AIR-ROTary JETTED AIR-PERCussion JETTED & DRIVEN ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

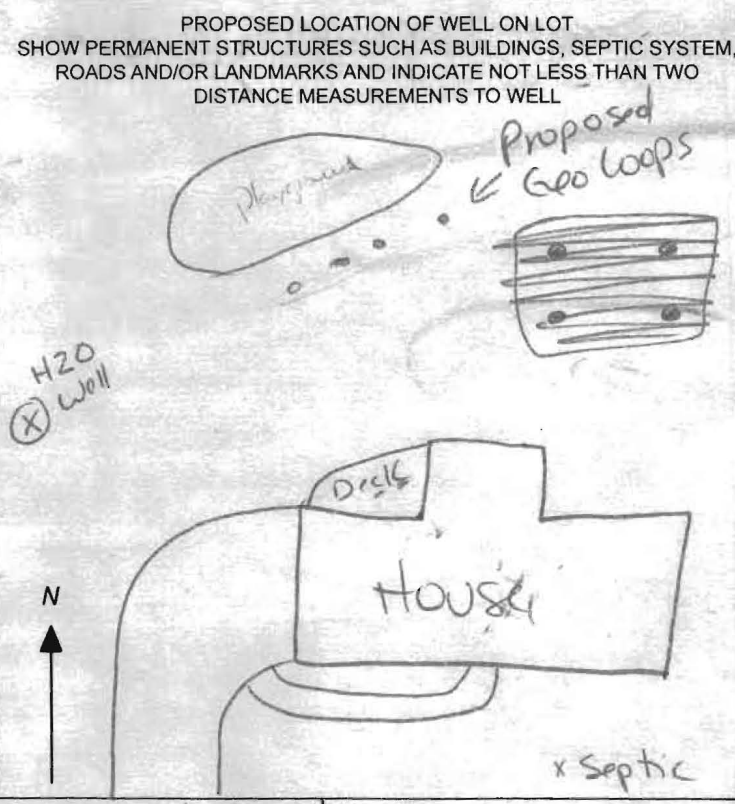
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER

PERMIT No. HO-14-0140



SPECIAL CONDITIONS

wells must be grouted from bottom to top

C1 04859

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER, STREET OR RFD, SUBDIVISION, SECTION, TOWN, LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Includes entries like Top Soil, Brn Red Soil, Brn Sand, Weathered Rock, Gng Rock, etc.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD casing types insert appropriate code below STEEL, CONCRETE, PLASTIC, OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch), Total depth of main casing (nearest foot)

OTHER CASING (if used) diameter inch, depth (feet) from to

SCREEN RECORD screen type or open hole insert appropriate code below STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER

DEPTH (nearest ft.) E A C H S C R E E N SLOT SIZE 1, 2, 3 DIAMETER OF SCREEN (NEAREST INCH) from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

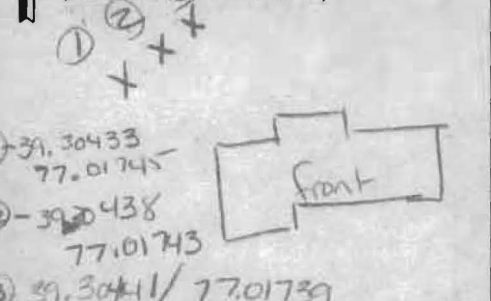
PUMPING TEST

HOURS PUMPED (nearest hour), PUMPING RATE (gal. per min.), METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL (distance from land surface) BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED (for test)

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon), PUMP HORSE POWER, PUMP COLUMN LENGTH (nearest ft.), CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED yes no Y N

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. MWD 553 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 WRD 097

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)




Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
Main: 410-313-2640 | Fax: 410-313-2648  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
[www.hchealth.org](http://www.hchealth.org)  
Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)  
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

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MEMORANDUM

TO: C. John Hess, MWD 553  
Allied Environmental Services

FROM: Ryan Rappaport, L.E.H.S.   
Well & Septic Program

CC: Jeff Williams, Program Supervisor  
Well & Septic Program

RE: Geothermal Well Permit Application, 2825 Rolling Fork Way

DATE: November 7, 2014

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The Health Department is in receipt of a well permit application for the above listed address. It has been reviewed and is currently on hold. The following requirements are needed in order to issue the permit.

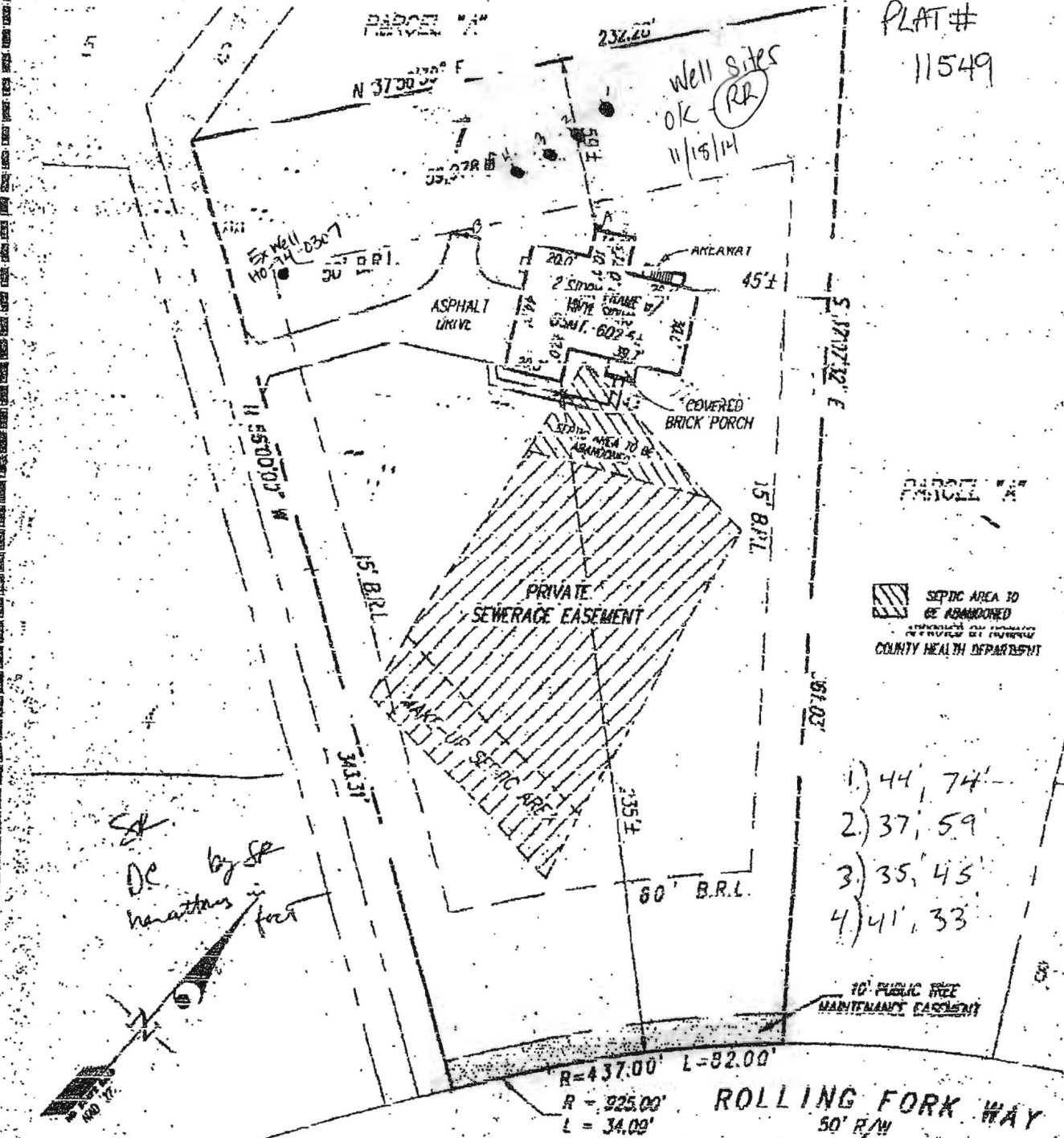
1. A revised site plan on an 8 ½" by 11" paper with a 1" to 30' to 1" = 100' scaled drawing of the property showing additional information including the existing septic components and the potable well location. Include setback distances.
2. Remove the geothermal loops identified on the site plan which will not be drilled.

CC: File

~~WEST~~ ORTEL

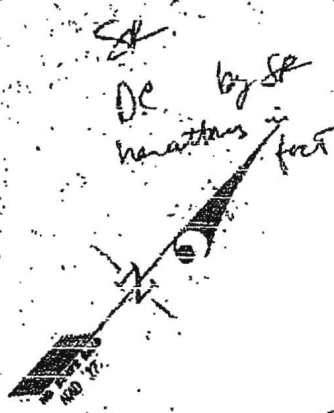
THIS INSTRUMENT IS OF EFFECT TO A CONVEYANCE ONLY AND IS NOT TO BE REPLIED FOR THE ESTABLISHMENT OR LOCATION OF EASES, RIGHTS OF WAY, BUILDINGS, LANDSCAPING, OR OTHER EXISTING OR FUTURE IMPROVEMENTS, AND DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE RELIABLE FOR THE TRANSMISSION OF TITLE OR SETTLEMENT PURPOSES. THIS INSTRUMENT IS SUBJECT TO ALL AND ALL EASEMENTS, RIGHTS OF WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

PLAT #  
11549



SEPTIC AREA TO BE ABANDONED  
AS SHOWN ON RECORDS  
COUNTY HEALTH DEPARTMENT

- 1) 44, 74'
- 2) 37, 59'
- 3) 35, 45'
- 4) 41, 33'



BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER PLAT No. 11549  
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±1 FOOT.

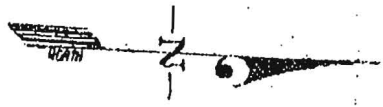
**GW** GUTSCHICK, LITTLE & WEBER, P.A.





THE PROPERTY SHOWN HEREON LIES WITHIN ZONE C (AREA OF PERMANENT FLOODING) AS SHOWN ON THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 240044 0014 B, REVISED DECEMBER 4, 1986.

File # 95-052  
301-989-2524

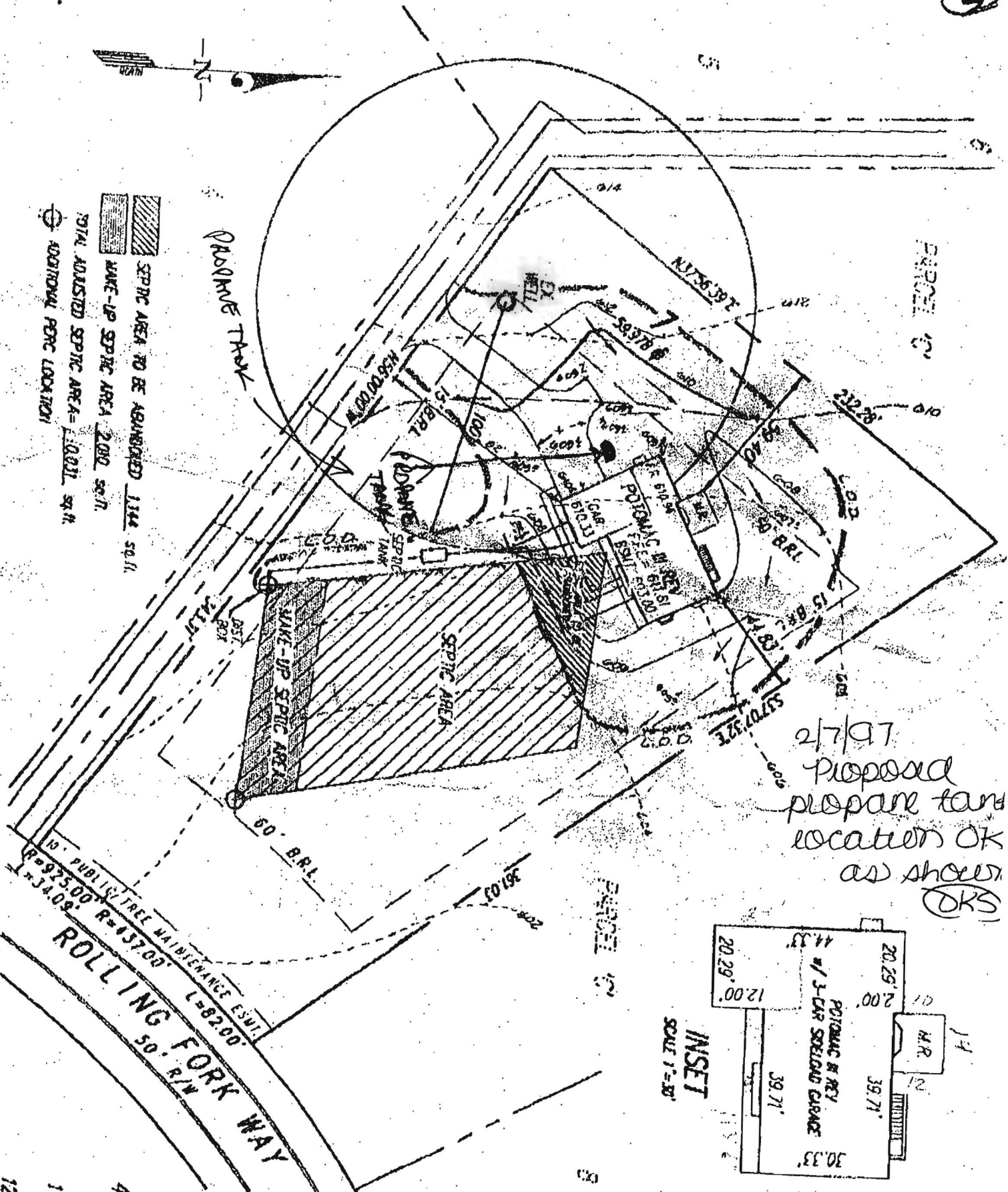
Scale: 1" = 50'

3

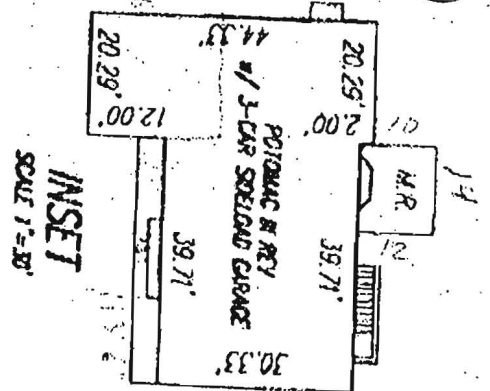


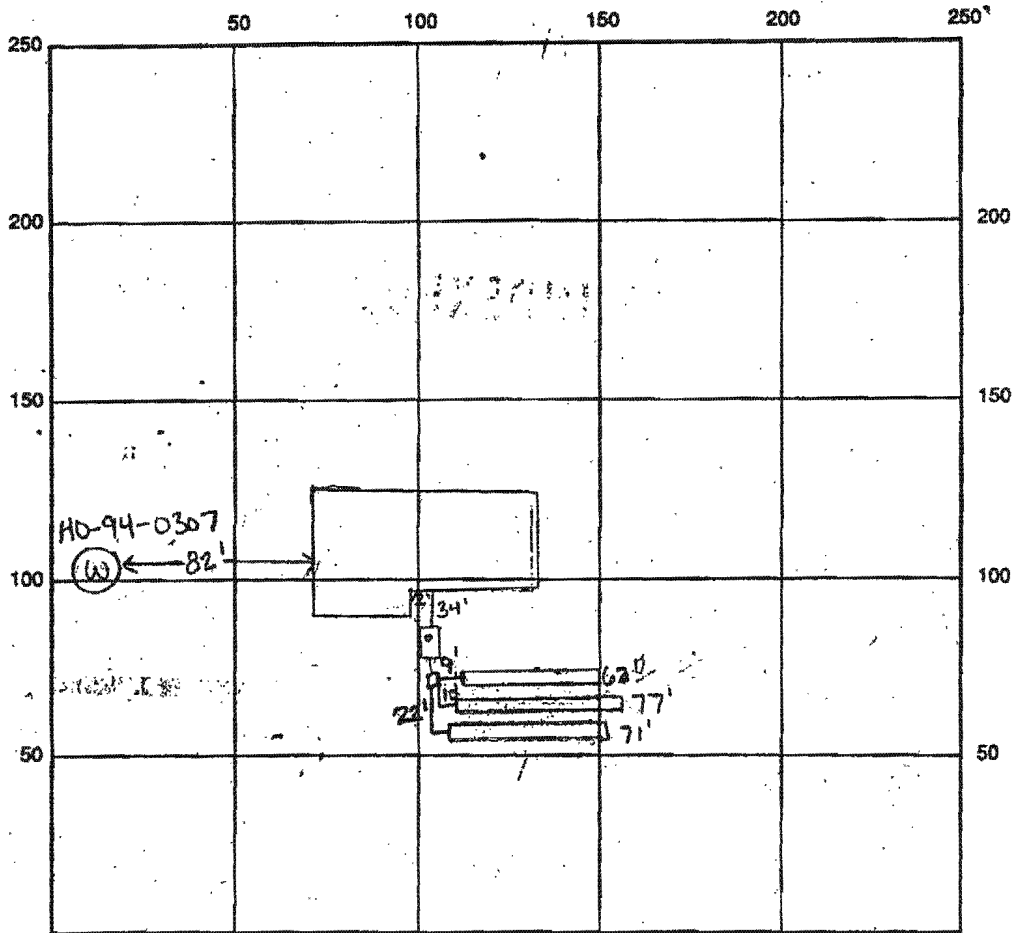
-  SEPTIC AREA TO BE ABANDONED 1144 SQ. FT.
-  MAKE-UP SEPTIC AREA 2082 SQ. FT.
-  TOTAL ADJUSTED SEPTIC AREA = 10011 SQ. FT.
-  ADDITIONAL PORG LOCATION

*ROADSIDE TRUCK*



2/7/97  
 Proposed  
 propane tank  
 location OK  
 as shown  
 (OKS)





INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE *Rolling Fork Way*

SEPTIC TANK LEVEL OK CLEANOUTS 1 on tank

DISTRIBUTION BOX LEVEL OK, baffles in

DRAIN FIELD/TILE DEPTH 7 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH  $\frac{1 \times 62}{1 \times 77}$  FT.  $\rightarrow 210$

NUMBER OF TRENCHES 3 ONE SIDEWALL BOTTOM AREA 840 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 2-10-97 OK to cover up to tank, house connection made KM/ALM

2-10-97 WPI OK to cover well line KM/ALM

2-11-97 (pm) OK to cover first two trenches KM

2-11-97 (pm) OK to cover all work KM

DATE SYSTEM APPROVED 2-11-97

INSPECTOR Kim Maister

Well. / Septic components

### HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than  $2.5 \text{ E}(-08) \text{ cm/sec}$ . Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

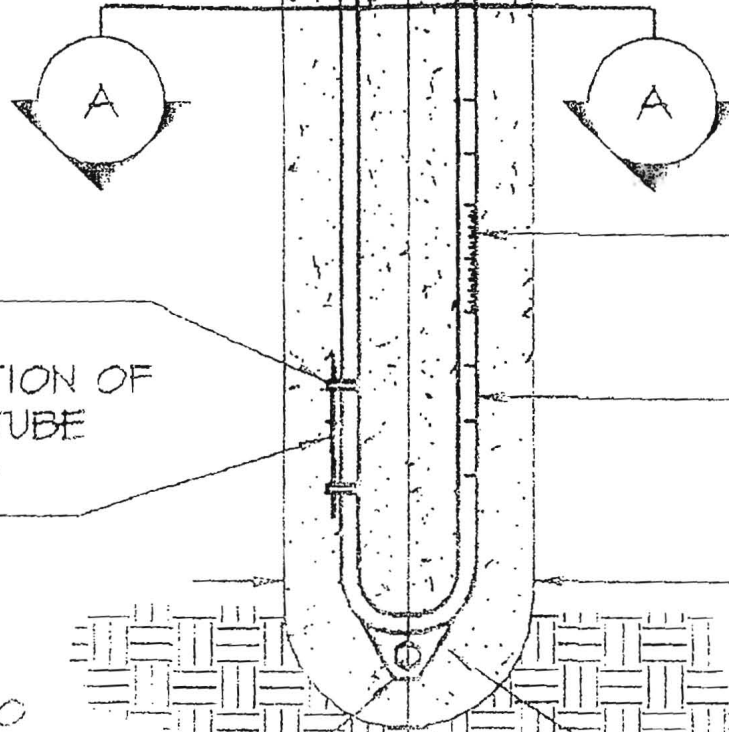
MINIMUM  
HORIZONTAL BURY  
DEPTH 4 FT

FOR CONT.  
SEE PLANS

HORIZONTAL  
PIPING

GROUT ENTIRE ANNULAR  
SPACE AND VERTICAL  
U-TUBE WITH (BENTANITE)  
GROUT.

BORE DEPTH



TAPE

5 TO 10 FOOT SECTION OF  
REBAR TO GUIDE TUBE  
INTO BORE DURING  
INSTALLATION

DEPTH MARKINGS IN FEET TO  
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE  
1.5 INCHES

TYPICAL BORE DIAMETER  
6.0 INCHES

ANCHOR FITTING TO  
PREVENT U-TUBE FROM  
SURFACING AFTER  
INSTALLATION

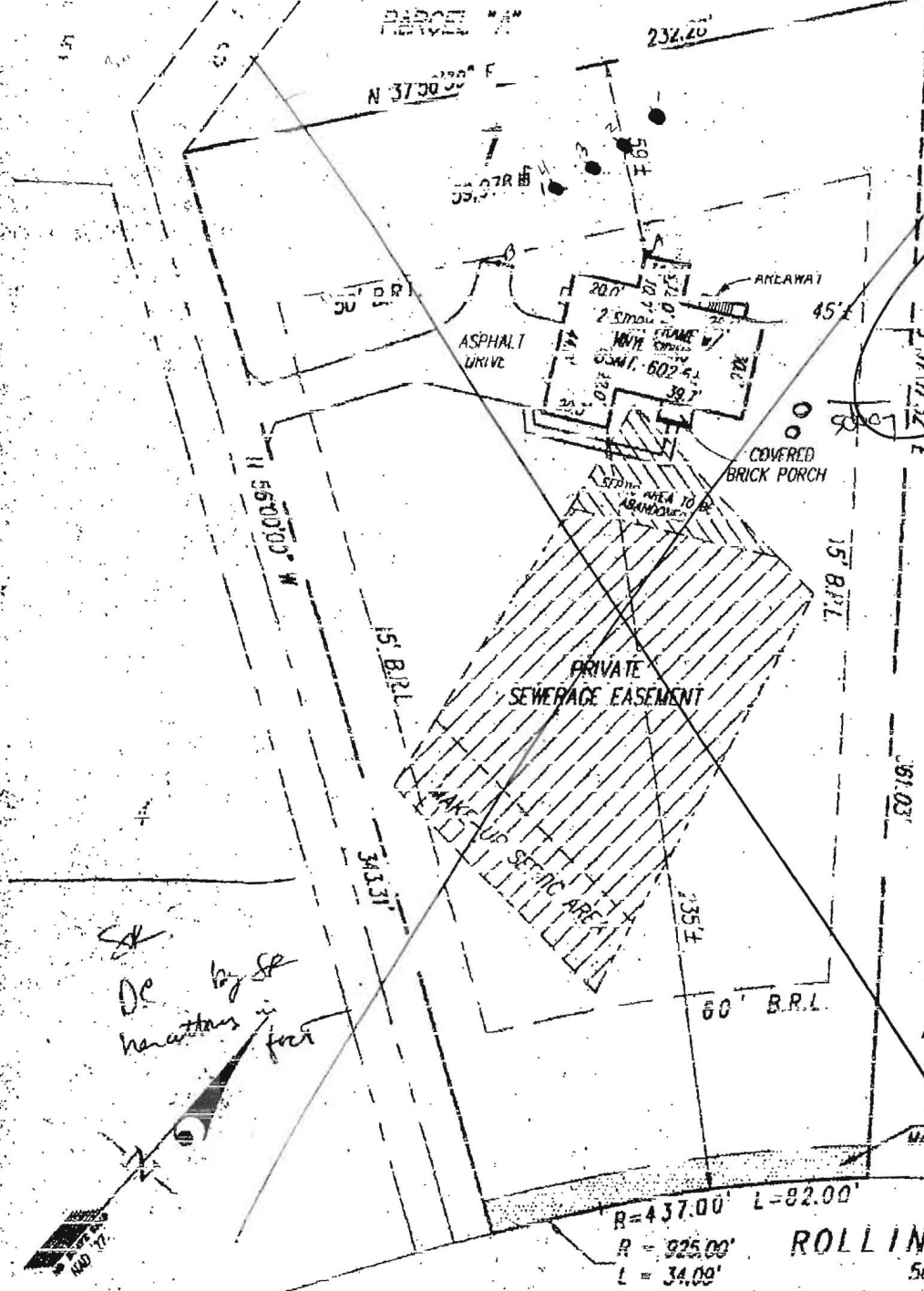
TYPICAL SOCKET U-BEND

~~WEST~~ ORTEL

THIS PLAN IS PREPARED PURSUANT TO AN ORDER TO A SURVEYOR ONLY INsofar AS IT IS REQUIRED BY A LEASOR OR A TRUST INSTRUMENT OR ITS SUCCESSORS IN CONNECTION WITH A DEVELOPED, TRANSFER AND FINANCING, AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATION OF FENCES, SHEDS, GARAGES, BUILDINGS, LANDSCAPING, OR OTHER EXISTING OR FUTURE IMPROVEMENTS; AND DOES NOT PROVIDE FOR THE ACCURATE IDENTIFICATION OF PROPERTY BOUNDARY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING. THIS INSTRUMENT DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION HEREON, AND THE PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, RIGHTS OF WAY, COVENANTS, AND RESTRICTIONS, ETC. OF RECORD, SOME OR ALL OF WHICH MAY OR MAY NOT BE SHOWN AND/OR REFERENCED HEREON. BEARINGS AND DISTANCES OF THE PROPERTY BOUNDARY LINES SHOWN HEREON ARE PER AVAILABLE RECORDS AND HAVE NOT BEEN FIELD VERIFIED.

PLAT #  
11549

See new well  
Site plan



SEPTIC AREA TO BE ABANDONED  
RECOMMENDED BY TOWNSHIP COUNTY HEALTH DEPARTMENT

- 1) 44, 74'
- 2) 37, 59'
- 3) 35, 45'
- 4) 41, 33'

R=437.00' L=82.00'  
R=325.00' L=34.00'  
ROLLING FORK WAY  
50' R/W

BUILDING SETBACKS (B.R.L.'s) SHOWN HEREON PER PLAT No. 11549  
SETBACK DISTANCES SHOWN HEREON AS "±" HAVE AN ACCURACY OF ±1 FOOT.

GLW GUTSCHICK, LITTLE & WEBER, P.A.

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File # 95-052  
301-989-2524

Scale: 1" = 60'