

# PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 512701

A 59289-A

DISTRICT \_\_\_\_\_

DATE 9/9/99

DATE SYSTEM APPROVED 10/4/99

INSPECTOR BB

HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
~~XXXXXXX~~ 410-313-2640

04-327195

**INDEXED**

S & K Plumbing IS PERMITTED TO INSTALL  ALTER

ADDRESS 1220 ESK Highway, Keymar, MD 21757 PHONE 301-898-0955

SUBDIVISION The Woods at Ridgeview LOT Parcel 1 ROAD 15050 Frederick Road

PROPERTY OWNER Altieri Homes

ADDRESS \_\_\_\_\_

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 210

*443-324-1589*

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 3 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Beginning from the intersection of the 270.00 & 359.13' lot lines, begin trenches 40 feet up the 359.73' lot line and 100 feet off that same lot line. Run trenches on contour toward Frederick Road.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. *ON SRV 8/24/99*

PLANS APPROVED BY Amy McMillen DATE 08/05/1999

COVER NO WORK UNTIL INSPECTED AND APPROVED

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM

NOTE: CLEANOUT REQUIRED EVERY 70 FEET OF SEWER LINE AND/OR AT 90° SWEEPS IN LINES FROM HOUSE TO DRAIN FIELDS. 90° ELBOWS NOT ACCEPTABLE.

NOTE: ALL PARTS OF SEPTIC SYSTEMS (I.E. TANK, DISTRIBUTION BOX, TRENCHES) TO BE 100 FEET FROM WELL (UNLESS OTHERWISE SPECIFICALLY AUTHORIZED)

NOTE: IF DEEP TRENCH(ES) ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCH(ES)

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

PERMIT VOID AFTER TWO YEARS

NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

*800119529  
815199  
SLUG PERMITS SIGNED  
AND RETURNED 11/29/2000  
800127578  
FINISH BASEMENT*

**BUILDING PERMIT SIGNED AND RETURNED**

\*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

\*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

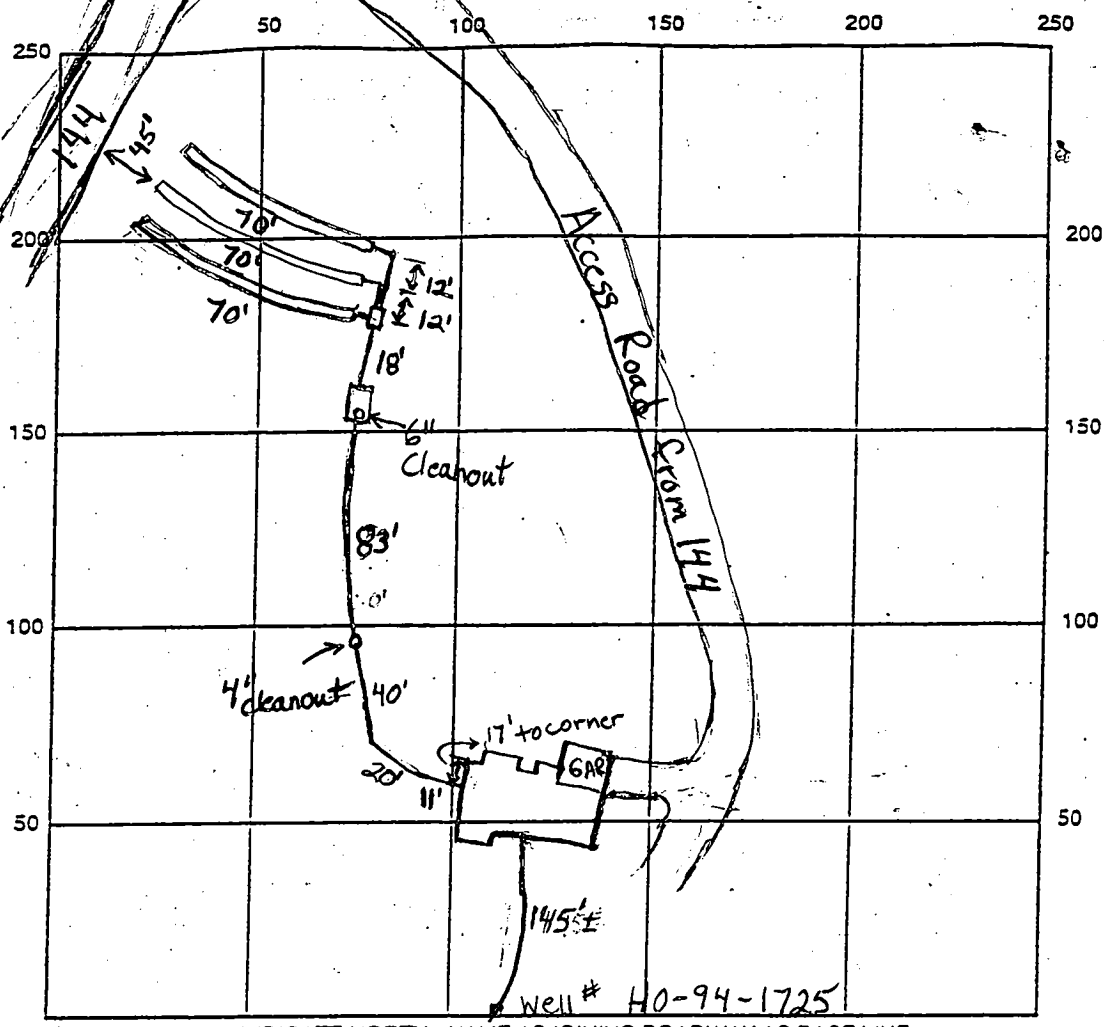
*800136952*

DECK

*6/12/02*

*714-05-600154680-GARAGE*

*59289A*



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 1000 gallon CLEANOUTS \_\_\_\_\_

DISTRIBUTION BOX LEVEL \_\_\_\_\_

DRAIN FIELD/TITLE DEPTH 5 FT. TRENCH WIDTH 3 FT. INLET DEPTH 3 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 3x70 FT. (210 ft. total)

NUMBER OF TRENCHES \_\_\_\_\_ ONE SIDEWALL/BOTTOM AREA 630 SQ. FT.

DRYWALL INSIDE DIAMETER N/A FT. EFFECTIVE DEPTH BELOW INLET N/A FT.

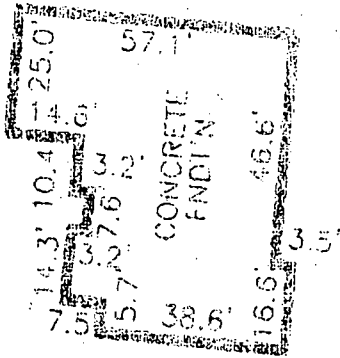
ABSORBENT AREA N/A SQ. FT.

REMARKS: 10/6/99 - House connection made. O.K. to cover everything (BB)

DATE SYSTEM APPROVED: 10/6/99

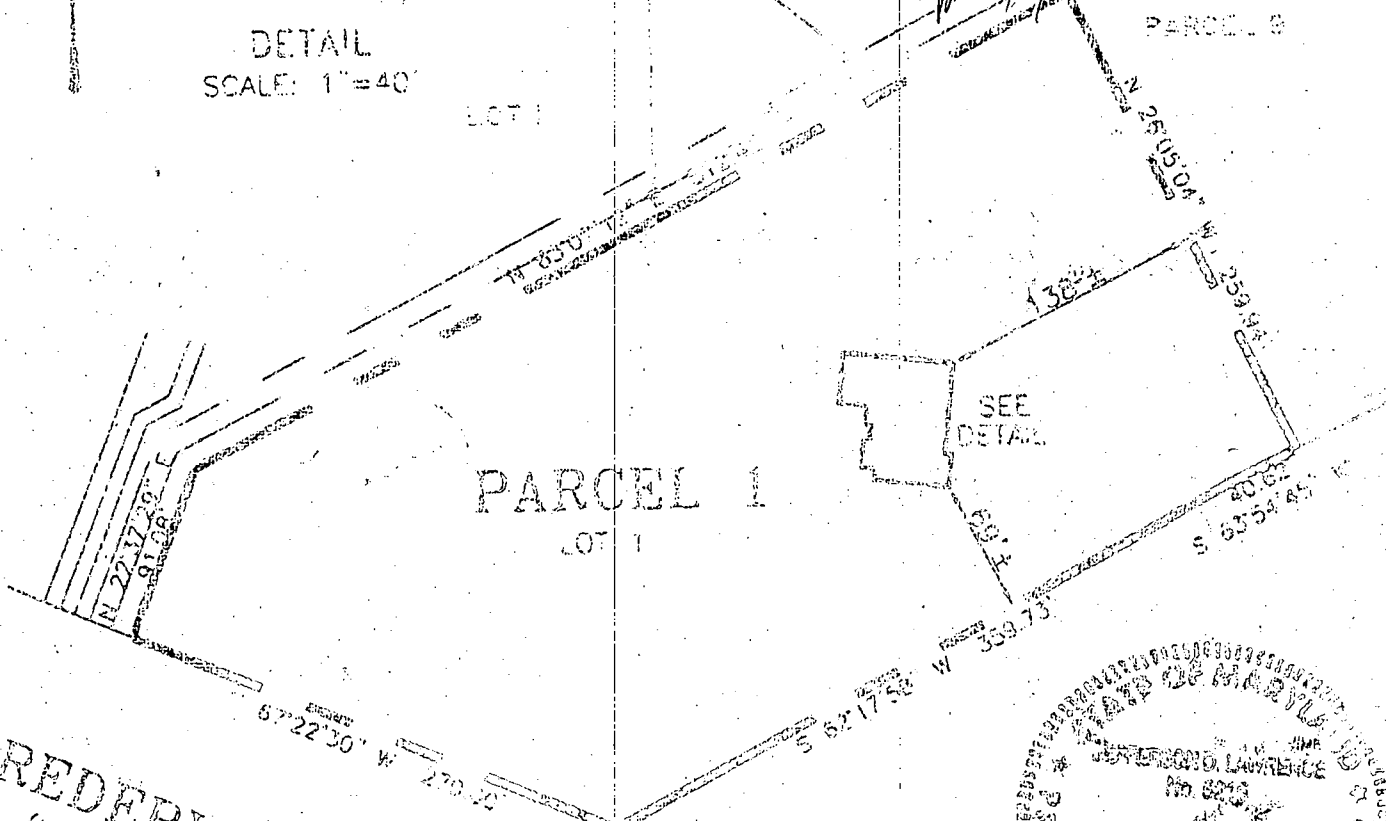
INSPECTOR B. Baker

ALTERI-HOME



DETAIL  
SCALE: 1"=40'

House is 43 ft west  
and 38 ft south of  
site on BP Plan - will require  
septic tank relocation but otherwise OK.  
PP 9/8/99



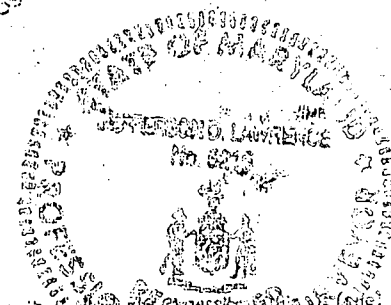
**FREDERICK PIKE**  
(MD ROUTE 144)

*Mark P. Lawrence*  
MD Reg. Professional Surveyor #5216

Property shown hereon is not to be construed as a warranty of title.

**O'CONNELL & LAWRENCE**

SURVEYORS, ENGINEERS & LAND PLANNERS  
17964 Georgie Avenue, Suite 502, Clney, Maryland 28052  
Tel: (301) 924-6570 • Fax: (301) 924-6672



Official dimensions shown hereon are to be construed as a warranty of title, to be based on the stated distance ± 20 feet, unless otherwise specified. All other dimensions are based on the conditions and other factors including bearing, slope, elevation changes, availability of property markers, availability and age of land record data, irregularly shaped lots or large lots.

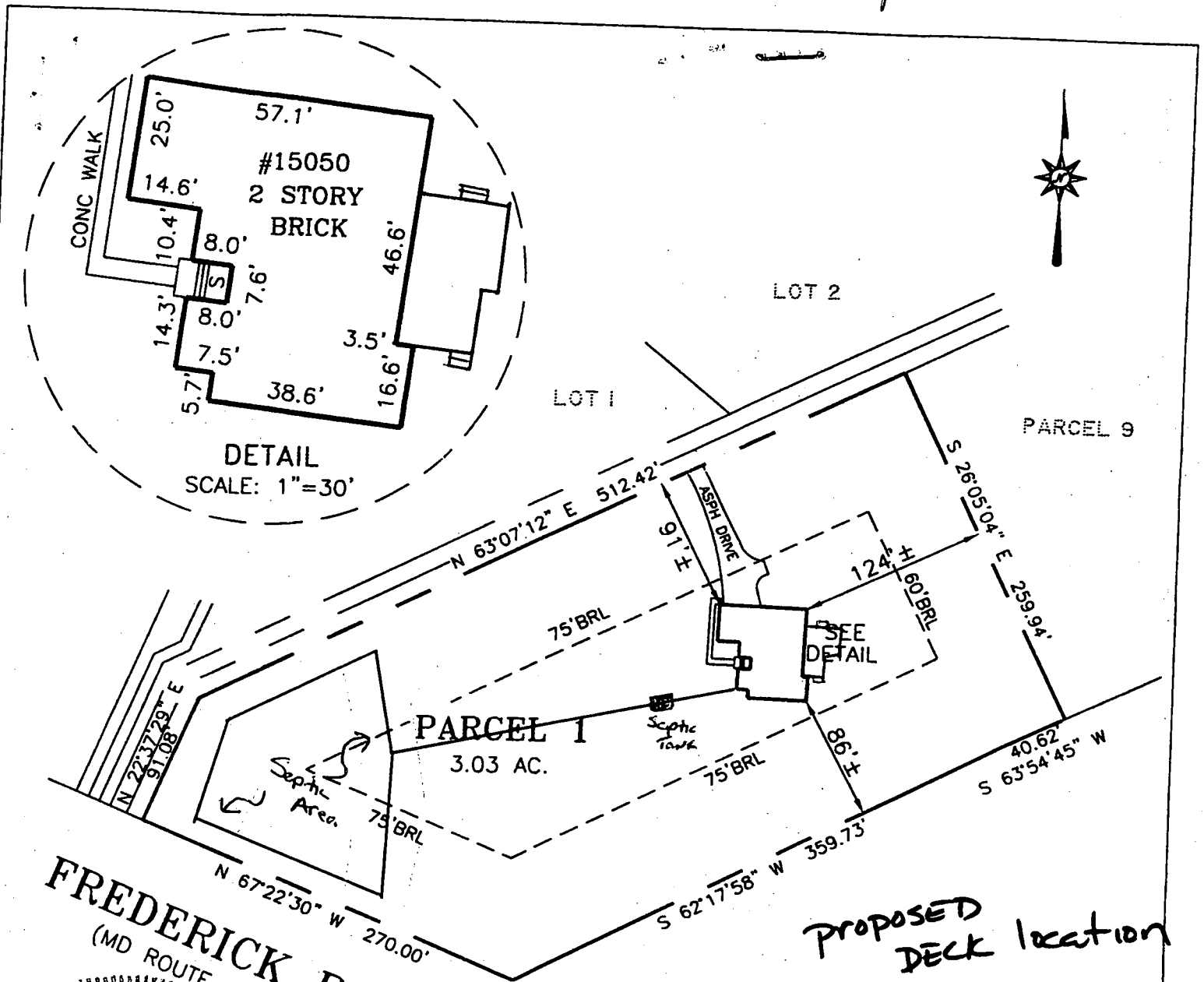
Location Drawing  
THE WOODS AT RIDGEVIEW  
PARCEL 1  
MONTGOMERY COUNTY, MARYLAND  
N/F LIBER 4333 FOLIO 5/7

SURVEYOR'S CERTIFICATION

I hereby certify to the best of my knowledge and belief that the survey and plan hereon are in accordance with the Plan as shown and that the measurements were taken by me or under my direct supervision and that the instruments used were properly adjusted and used in accordance with the laws of the State of Maryland.

Job No. 22-11  
Scale 1"=40'

P00136852



**FREDERICK PIKE**  
 (MD ROUTE 144)

STATE OF MARYLAND

JEFFERSON D. LAWRENCE  
 No. 5216  
 1-18-00  
 MD Reg. Professional Surveyor 5216 Jefferson D. Lawrence Date

Offset dimensions shown thus NN± are generally within 1 (one) foot of the stated distance if 20 feet or less. Longer distances may exceed 1 foot margin proportionally. All offsets depend on site conditions and other factors including but not limited to; elevation changes, availability of property markers, availability and age of land record data, irregularly shaped and or large lots.

Property shown hereon is not in a flood plain per existing records unless otherwise noted

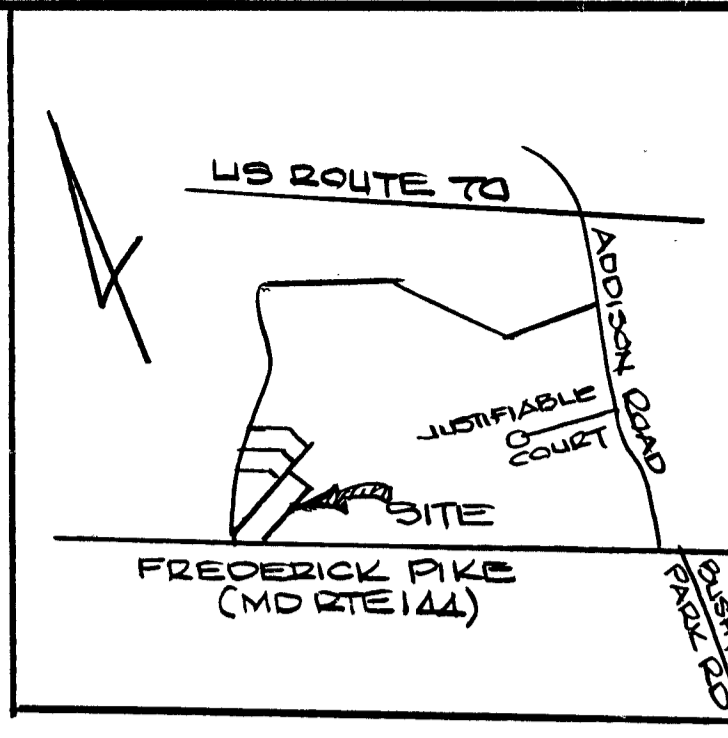
**CONNELL & LAWRENCE, INC.**  
 SURVEYORS, ENGINEERS & LAND PLANNERS  
 17904 Georgia Avenue, Suite 302, Olney, Maryland 20832  
 Tel: (301) 924-4570 • Fax: (301) 924-5872

LOCATION DRAWING  
 THE WOODS AT RIDGEVIEW  
 PARCEL 1  
 HOWARD COUNTY, MARYLAND  
 N/F LIBER 4333 FOLIO 577

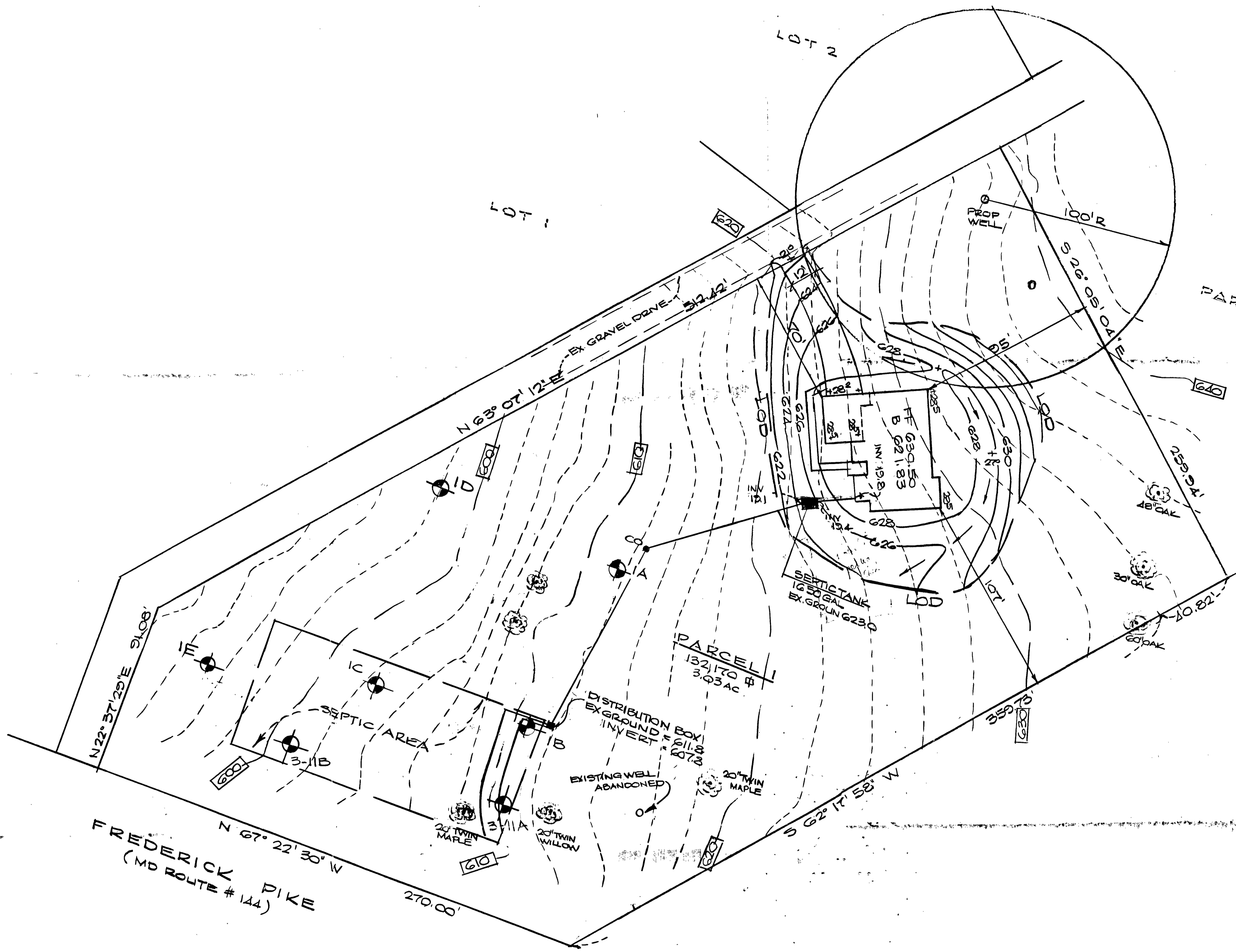
**SURVEYOR'S CERTIFICATION**

I hereby certify to the best of my knowledge and belief that the property delineated hereon is in accordance with the Plat of Division and/or deed of record, that the improvements were located by accepted field practices and include permanent visible structures and encroachments, if any. This drawing is not to be relied upon for the establishment or location of fences, garages, or other existing or future improvements. This drawing 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 or refinancing. Questions relating to relationships of the property corners or lines to real objects must be addressed by a Boundary Survey. This drawing

Job No. 22-306
Scale 1" = 100'
Field Dates
Wall Check 1/18/99



VICINITY MAP



**LEGEND**

- EXISTING CONTOUR  632
- FINISHED CONTOUR  632
- FIRST FLOOR ELEVATION FF: 630.50
- BASEMENT ELEVATION B: 621.83
- SPOT ELEVATION +2'
- DIRECTION OF DRAINAGE
- LIMIT OF DISTURBANCE  LOD
- PERC TEST HOLES

**NOTE**  
DISTURBED AREA = 12,200 sq ft

Total linear feet of trench required 210 feet  
 Width of trench(es) 3 feet  
 Depth of trench(es) 5 feet  
 Depth of stone required below distribution pipe 3 feet

Approved Septic System Plan  
 Howard County Health Department

*Ami McMillan* 7/5/99  
 Signature Date

SITE DEVELOPMENT PLAN  
 PARCEL 1  
**THE WOODS AT RIDGEVIEW**  
 (LISBON) 4TH ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 ZONE RC-DEO TAX MAP 8 PARCEL 386

**O'CONNELL & LAWRENCE, INC.**  
 SURVEYORS, ENGINEERS & LAND PLANNERS  
 17904 Georgia Avenue, Suite 302, Olney, Maryland 20832  
 Tel: (301) 924-4570 • Fax: (301) 924-5872

DESIGNED BY RM.T DRAWN BY RM.T DATE: JULY 99 SCALE: 1"=30' PROJECT/JOB #: 22-306 SHEET NO. 1 OF 1

# APPLICATION

PERCOLATION TESTING

A 59289A

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 12/31/97

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 Highland Development Corporation - ~~the~~ Atticki Homes

ADDRESS \_\_\_\_\_ PHONE 410 531 5539

AGENT OR PROSPECTIVE BUYER Chuck Shauf

ADDRESS 3779 Shuff Road PHONE 410 4894630

PROPERTY LOCATION: Shirwood Mt. 21738

SUBDIVISION \_\_\_\_\_ LOT NO. Parcel 1

ROAD AND DESCRIPTION 15050 Old Frederick Road Woodlawn

TAX MAP 8 PARCEL # 56, 57, 60, 61, 130, 137, 174 \* 9 lots (8 New 1 home)

SIZE OF LOT 1.2 to 3 ac TYPE BLDG. \_\_\_\_\_  
(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. Chuck Shauf  
(SIGNATURE OF APPLICANT)

APPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

DISAPPROVED BY \_\_\_\_\_ FOR \_\_\_\_\_ DATE \_\_\_\_\_

HOLD PENDING FURTHER TESTS \_\_\_\_\_ **NO PERMIT SIGNED**

REASONS FOR REJECTION OR HOLDING \_\_\_\_\_ **AND RETURNED 8-5-99**

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE SFD-3 Ben

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # \_\_\_\_\_ DATE \_\_\_\_\_

# THIS IS NOT A PERMIT

225  
188  
1/13/98  
4 1/14/98

59289A

COUNTY #

SOIL PROFILE

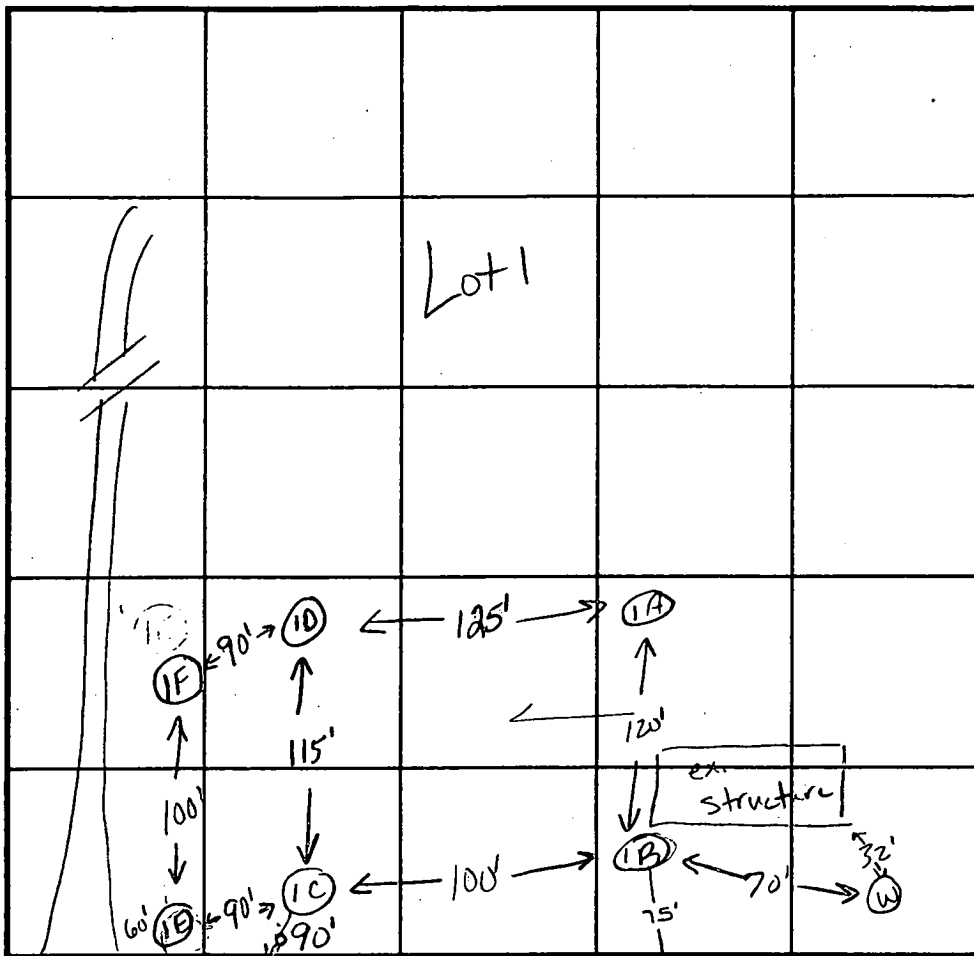
0'  
orange/red  
Clay loam  
3.0'  
red/pink  
Silty loam  
15% shale frags  
11.5'

1C

orange  
red  
Clay loam  
3.0'  
br/or  
yellow  
Silty loam  
20% shale frags  
12.0'

1B

Same as hole # 1C



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

311B

140'

311A

Rt 144

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
	1D	3.5'S	2:37	2:39	2:39	2:45	6min
		11.5'D	visual	ok-see profile			
	1C	3.0'S	2:38	2:40:30	2:40:30	2:44:30	4min
		12.0'D	visual	ok-see profile			
	1B	3.0'S	2:47:30	2:54:30	2:54:30	3:05:30	11min
		6.0'S	2:47	2:50	2:50	2:56:30	6:30
	1F	11.5'D	visual	ok-see profile			
	1A	4.0'S	2:57	3:02	3:02	3:12	10min
		11.5'D	visual	ok-see profile			
	1E+1F	11.5'D	visual	only-ok	see profile for 1D		

REMARKS test holes staked

TYPE OF SOIL \_\_\_\_\_  
 TESTED BY Kim Maiste ALSO PRESENT Chuck Shoop  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 78 minutes TRENCH WIDTH 3.0  
 INLET DEPTH 3.0 MAXIMUM BOTTOM DEPTH 5.0 SQ. FT./BEDROOM 210

SOIL PROFILE

1A  
or/br  
Clay loam  
4.0'  
red/br  
Silty loam  
30%-40% shale frags  
11.5'

# APPLICATION

PERCOLATION TESTING

A 59289A

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 12/31/97

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 Highland Development Corporation - ~~inc~~

ADDRESS \_\_\_\_\_ PHONE 410 531 5539

AGENT OR PROSPECTIVE BUYER Chuck Shroy

ADDRESS 3779 Shroy Road PHONE 410 4894630

PROPERTY LOCATION: Glenwood Mt. 21738

SUBDIVISION \_\_\_\_\_ LOT NO. Parcel 1

ROAD AND DESCRIPTION Old Frederick Road Woodlawn

TAX MAP 8 PARCEL # 56, 57, 60, 61, 130, 137, 174 \* 9 lots (8 New, 1 house)

SIZE OF LOT 1 to 3 ac TYPE BLDG. \_\_\_\_\_  
(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. Chuck Shroy  
(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

225  
1880  
1/13/98  
4/1/98

COUNTY #

SOIL PROFILE

A

brn  
SiClm

3.0

pink to  
brown

SiSalm  
10%  
Rx

12.0

B

bright  
red  
SiClm

4.0

lgt brn

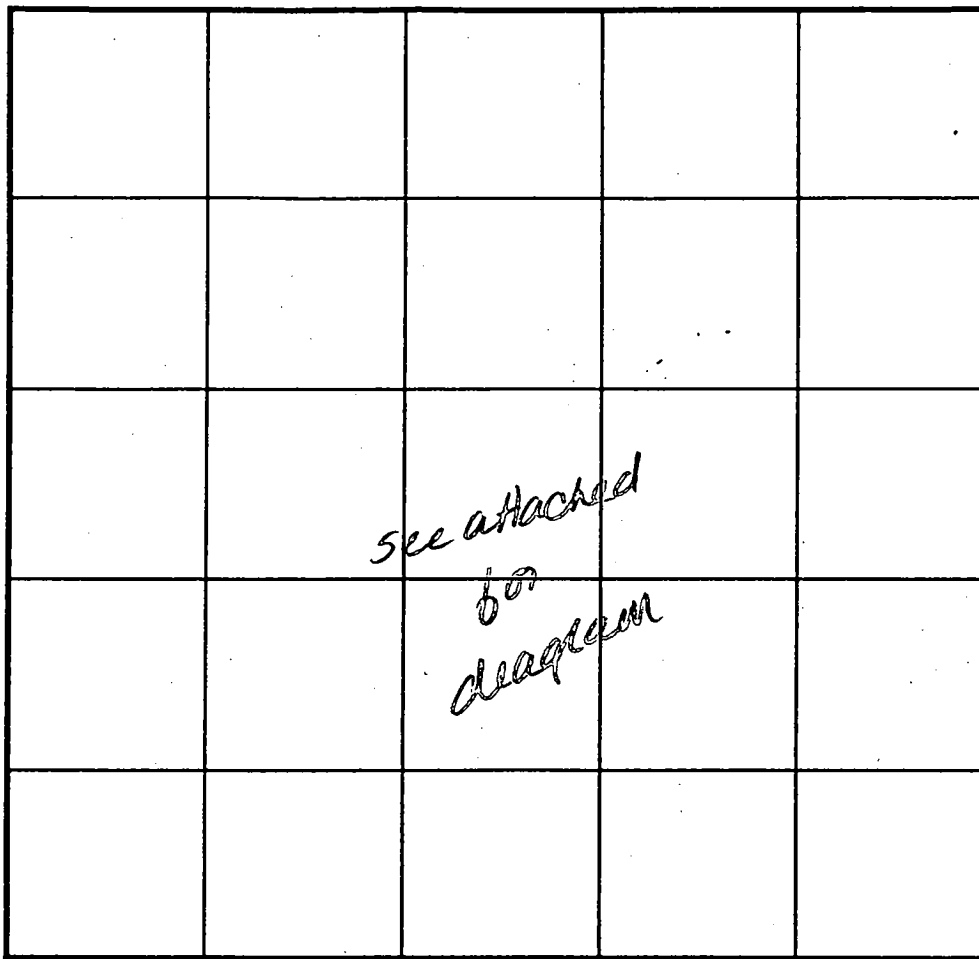
SiSalm  
15%  
rock

12.0

SOIL PROFILE

0'

Empty rectangular box for soil profile notes.



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
3-11-99	311-A	Visual	to 12.0 - see profile		—		OK
	311-B	3.5 V12.0	3:47	3:50	3:50	3:55	5min

REMARKS \_\_\_\_\_

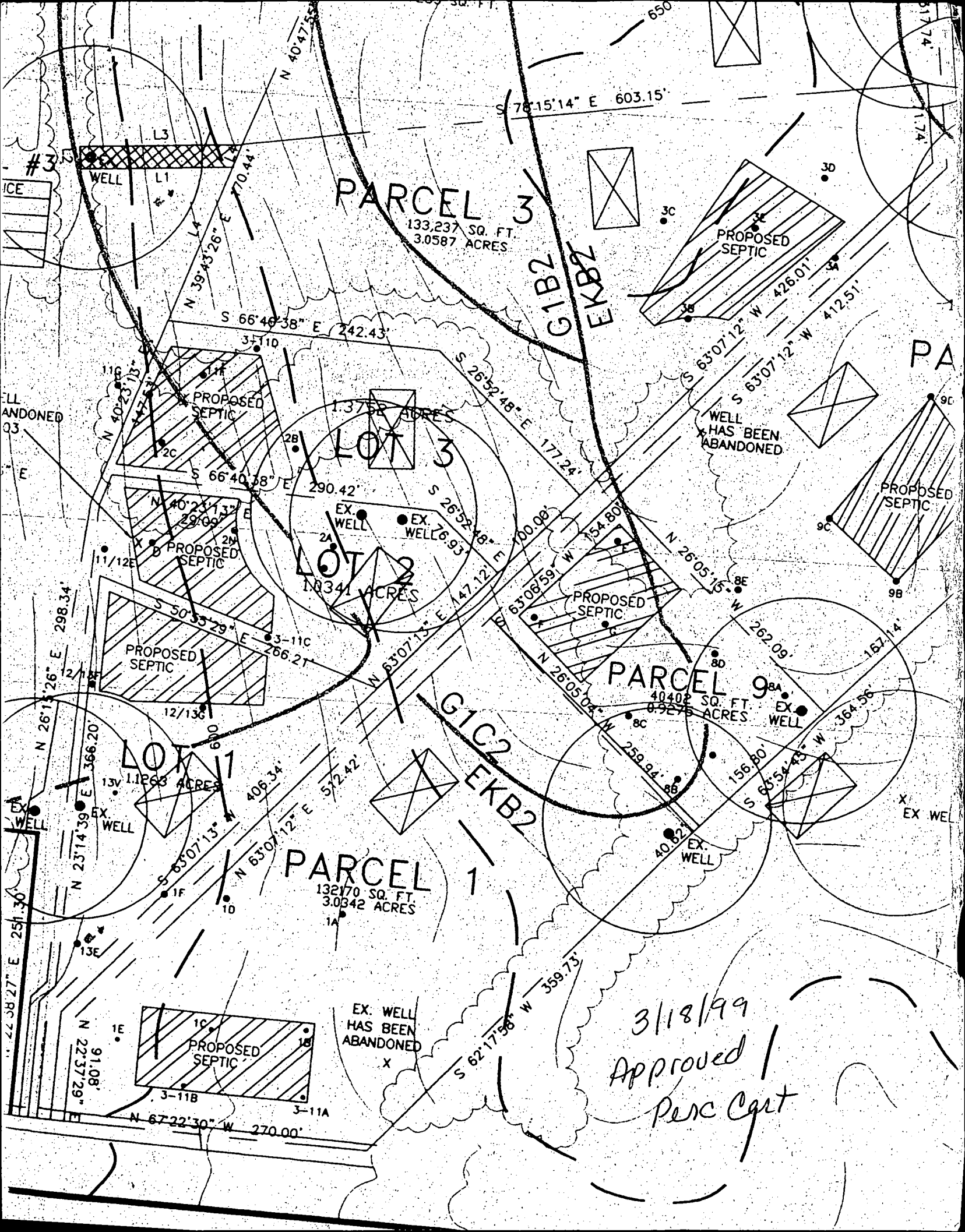
TYPE OF SOIL \_\_\_\_\_

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

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

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

Empty rectangular box for additional notes or diagrams.



PARCEL 3  
133,237 SQ. FT.  
3.0587 ACRES

LOT 3  
1.3758 ACRES

LOT 2  
1.0341 ACRES

LOT 7  
1.1263 ACRES

PARCEL 1  
132,170 SQ. FT.  
3.0342 ACRES

PARCEL 9  
40,402 SQ. FT.  
0.9275 ACRES

PROPOSED SEPTIC

PROPOSED SEPTIC

PROPOSED SEPTIC

PROPOSED SEPTIC

PROPOSED SEPTIC

PROPOSED SEPTIC

PROPOSED SEPTIC

WELL HAS BEEN ABANDONED

EX. WELL HAS BEEN ABANDONED

3/18/99  
Approved  
Perc Cert

S 78°15'14" E 603.15'

N 39°43'26" E 70.44'

S 66°46'38" E 242.43'

S 26°52'48" E 177.24'

S 63°07'12" W 426.01'

S 63°07'12" W 412.51'

N 40°23'13" E 290.42'

N 40°24'13" E 290.09'

S 66°40'38" E 290.42'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 26°52'48" E 177.24'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

S 50°55'29" E 266.21'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 26°13'26" E 298.34'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 23°14'39" E 366.20'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 63°07'13" E 572.42'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 22°37'29" E 91.08'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 67°22'30" W 270.00'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 63°06'59" W 154.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 26°05'04" W 156.80'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

N 63°07'12" E 572.42'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

S 62°17'58" W 359.73'

C1 04029

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER A 59289 A

(THIS NUMBER IS TO BE PUNCHED IN COLUMNS 5-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED 12 30 98

DATE WELL COMPLETED 12 14 98

Depth of Well 440' (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-1725

OWNER Highland Development last name first name TOWN Glenwood STREET OR RFD Rt 244 SUBDIVISION The Woods at Ridgeway SECTION lot Parcel 1

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, FEET (FROM, TO), check if water bearing. Includes entries for Brown Shale, Gray Granite, and various casing materials.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (CM, BC) NO. OF BAGS 15 NO. OF POUNDS 1710 GALLONS OF WATER 90 DEPTH OF GROUT SEAL 0 to 37 ft.

CASING RECORD

MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 40

SCREEN RECORD

screen type or open hole (ST, BR, HO) DIAMETER OF SCREEN 56 to 60 (NEAREST INCH)

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 45 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 57 ft. WHEN PUMPING 225 ft.

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (YES/NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 to 35 PUMP HORSE POWER 37 to 41 PUMP COLUMN LENGTH (nearest ft.) 43 to 47 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 2 (nearest foot)

C 2

Table with columns: DEPTH (nearest ft.), SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN. Includes data for depths 38 and 440.

NUMBER OF UNSUCCESSFUL WELLS: 4 WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER (A) 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. 1 MS DO 24 DRILLERS SIGNATURE Joseph F. Mayne LIC. NO. 1 M D

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

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 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

See Attached well locations



\*\*\*\*\*  
WATER WELL ABANDONMENT-SEALING REPORT FORM  
\*\*\*\*\*

SUBMIT COPIES OF COMPLETED FORM TO:

- \* COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)
- \* WELL OWNER
- \* MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 12/21/98 (month/day/year)

\* PERMIT NUMBER OF ABANDONED WELL (if any) no tag

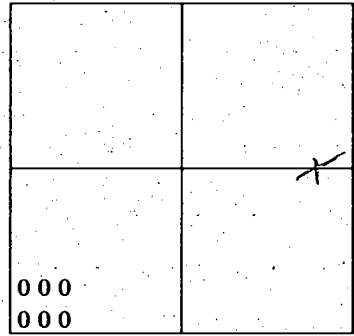
\* PERMIT NUMBER OF REPLACEMENT WELL 210 - 94 - 1725

\* PERSON ABANDONING WELL: Joseph Murre

WELL DRILLERS LICENSE NUMBER: 024  
CIRCLE: MWD/MSD/MGD

\* OWNER'S NAME: Highland Development

\* WELL LOCATION:  
 COUNTY: Howard  
 NEAREST TOWN: Glenwood  
 TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_\_ PARCEL 1  
 SUBDIVISION: The Woods at Redglen  
 SECTION: \_\_\_\_\_ LOT: \_\_\_\_\_  
 NEAREST ROAD: Rt 144



SHOW WELL LOCATION BY X WITHIN BOX

MARYLAND GRID COORDINATES  
 E 790  
 BOX NUMBER  
 N 540

- \* TYPE OF WELL BEING ABANDONED:
- DRILLED                       JETTED  
 BORED/AUGURED             HAND DUG  
 OTHER (specify) \_\_\_\_\_

- \* USE CODE:
- DOMESTIC                       MUNICIPAL/PUBLIC  
 IRRIGATION                     INDUSTRIAL  
 TEST/OBSERVATION

- \* TYPE OF CASING:
- STEEL                               PLASTIC  
 CONCRETE                         OTHER (specify) \_\_\_\_\_

\* SIZE OF CASING: 6 5/8 INCHES IN DIAMETER

\* DEPTH OF WELL: 60 FEET DEEP

\* WAS ANY CASING REMOVED?  YES  NO  
if yes, length removed, in feet: \_\_\_\_\_

\* WAS CASING RIPPED OR PERFORATED?  YES  NO

LOG-OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cement</u>	<u>0</u>	<u>40</u>
<u>Washed gravel</u>	<u>40</u>	<u>60</u>

SIGNATURE-MASTER WELL/DRILLER OR SUPERVISING SANITARIAN Joseph Murre

LICENSE # 024

CIRCLE ONE MWD/MSD/MGD

DATE 12/29/98

7466

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

12/31/78 OK All HO-94-1725

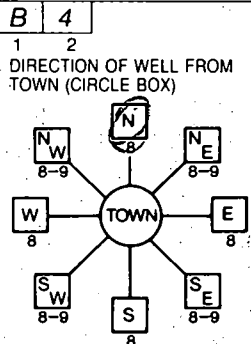
fill in this form completely

THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS.

OWNER INFORMATION: Date Received (APA) 4-7-98, Headland Development CMC, P.O. Box 208, Clarksville, MD 21029

LOCATION OF WELL: Howard County, The Woods at Ridgeman, Parcel 1, 6 lanes rd, 3 miles from town

DRILLER INFORMATION: Joseph L. Maupie, M.S.D. 024, Maupie Well Drilling, 5512 Ridge Rd. Mt. Airy 21771, Signature: Joseph L. Maupie, Date: 4/6/98



RT-144, NEAR WHAT ROAD, ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX), DISTANCE FROM ROAD 486 FT, TAX MAP: 8 BLK: 15 PARCEL 56

WELL INFORMATION: APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL: Howard County, Signature: Kim Maisto, DATE ISSUED 9/9/98, EXP. DATE 9/9/99, NORTH GRID 544.000, EAST GRID 790.000

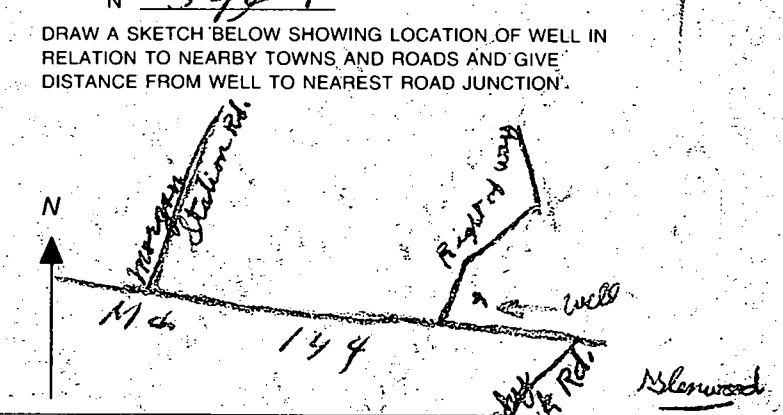
USE FOR WATER (CIRCLE APPROPRIATE BOX): [D] HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

APPROXIMATE DEPTH OF WELL 260 FEET, APPROXIMATE DIAMETER OF WELL 6 INCH, NEAREST TOWN

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X: 12/14/98, 10:30, SOURCES OF DRILLING WATER 1. well, WRITE THE BOX NUMBER FROM THE MAP HERE: E 78090, N 5404

METHOD OF DRILLING (circle one): AIR-ROTARY, JETTED, Jetted & DRIVEN, ROTARY (Hydraulic Rotary), REVERSE-ROTARY, DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX): [Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED, PERMIT NUMBER OF WELL TO BE REPLACED, OR DEEPEMED (IF AVAILABLE) 41



Not to be filled in by driller (MDE OR COUNTY USE ONLY): APPROX. PERMIT NUMBER 54, FORCE KM, PERMIT No. HO-94-1725

SPECIAL CONDITIONS: NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

147255 SQ. FT.

PARCEL 3

133,237 SQ. FT.  
3.0587 ACRES

LOT 3  
55785.10 SQ. FT.  
1.2806 ACRES

LOT 2  
47,273.57 SQ. FT.  
1.0853 ACRES

LOT 1  
53705.5 SQ. FT.  
1.233 ACRES

PARCEL 9

40402 SQ. FT.  
0.9275 ACRES

PARCEL 1

132170 SQ. FT.  
3.0242 ACRES

9/16/98  
OK to move to  
new location due  
to dry hole.  
**KM**

9/18/98  
Well site ok  
as staked.  
**KM**

9/18/98  
dry hole per driller  
**KM**

EX. WELL  
TO BE ABANDONED  
18

EX. WELL  
BE ABANDONED  
73-3203

EX. WELL  
BE ABANDONED  
1073-2788

INCLUDED

PROP WELL  
S 8°5'14" E 610.79'  
PROP WELL

N 40°47'55" E 647.87'

S 66°40'38" E 247.36'

S 66°40'38" E 294.86'

S 66°40'38" E 299.17'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

S 26°52'48" E 175.62'

3B

3D

3E

3F

3G

3H

3I

3J

3K

3L

3M

3N

3O

3P

3Q

3R

116

117

11/12E

12/13F

12/13E

13V

13E

1C

3D

3E

3F

3G

35° E 106.00'

N 22°37'29" E 251.97'

N 22°37'29" E 291.08'

N 67°22'31" W 270.00'

S 62°11'58" E 43.05'

N 63°54'45" E 43.05'

E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 26°05'15" E 282.09'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

S 63°54'45" W 384.90'

G1B2  
EKB2

G1C2  
EKB2

PERC TEST  
18

X

**KM**

**KM**

**KM**

NOT INCLUDED

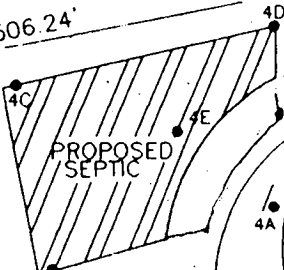
N 61°02'44" E 102.57'

72336 SQ. FT.  
1.6606 ACRES

PARCEL 5

EX. WELL

S 78°15'22" E 506.24'



17.22' N 77°05'19" W 266.91'

1.0141 ACRES  
44174 SQ. FT.

PARCEL 6

PROPOSED SEPTIC

1327.45" W  
1527.74" W  
165.04" W  
317.74" W

EX. WELL

EX. WELL

EX. WELL

112.27" W  
1527.74" W  
171.74" W

PARCEL 7

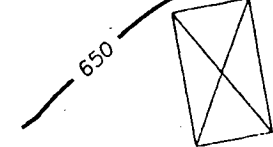
43381 SQ. FT.  
0.9959 ACRES

EX. WELL

N 57°03'06" W 285.37'

650

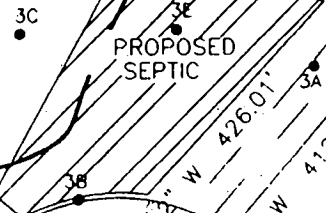
S 78°15'14" E 603.15'



3

SQ. FT.  
ACRES

G17B2  
TK7BZ



PROPOSED SEPTIC

3C

3D

3A

S 63°07'12" W 426.01'

412.51'

130902 SQ. FT.  
3.0051 ACRES

PARCEL 8

WELL  
TO BE  
ABANDONED

S 63°07'12" W 426.01'

S 63°07'12" W 412.51'

PROPOSED SEPTIC

9D

9A

9C

S 26°52'48" E 177.24'

3

SQ. FT.  
ACRES

S 63°52'24" W 374.71'

S 12°55'04" W 167.00'

S 12°55'04" W 141.19'

S 14°12'02" W 65.99'

99.98'

*Handwritten note:*  
Parcel 5, 6, 7, 8  
All parcels are proposed  
to be abandoned

410 313  
2018

SOLEDAD COUNTY HEALTH DEPARTMENT  
Bureau of Environmental Health  
3928-E Silvestre Hills Drive  
Gilbert City, MO 64429  
410-313-2140

APPLICATION FOR PITLESS AMPLIFIER, WELL PUMP AND PRESSURE TANK INSTALLATION

Applicant's Name K. [unclear]  
Address [unclear]

Receipt # [unclear]  
Date 10/6/99

Name of Installer Creek Water Systems Inc

Telephone # [unclear]

Installer's License # PI 074  
Specialty Well Pump Installer

Well Driller  Registered Driller

Name of Property Owner Alfred [unclear]  
Address [unclear] Lot # 1  
City/Town [unclear]

Telephone # [unclear]  
Well Tag # HO 94-1725

- 1.  1/2" pipe
- 2.  3/4" pipe
- 3.  1" pipe
- 4.  1 1/2" pipe
- 5.  2" pipe
- 6.  2 1/2" pipe
- 7.  3" pipe
- 8.  4" pipe
- 9.  6" pipe
- 10.  8" pipe
- 11.  10" pipe
- 12.  12" pipe
- 13.  14" pipe
- 14.  16" pipe
- 15.  18" pipe
- 16.  20" pipe
- 17.  24" pipe
- 18.  30" pipe
- 19.  36" pipe
- 20.  42" pipe
- 21.  48" pipe
- 22.  54" pipe
- 23.  60" pipe
- 24.  72" pipe
- 25.  84" pipe
- 26.  96" pipe
- 27.  108" pipe
- 28.  120" pipe
- 29.  144" pipe
- 30.  168" pipe
- 31.  192" pipe
- 32.  216" pipe
- 33.  240" pipe
- 34.  270" pipe
- 35.  300" pipe
- 36.  324" pipe
- 37.  360" pipe
- 38.  408" pipe
- 39.  456" pipe
- 40.  504" pipe
- 41.  540" pipe
- 42.  576" pipe
- 43.  612" pipe
- 44.  648" pipe
- 45.  684" pipe
- 46.  720" pipe
- 47.  756" pipe
- 48.  792" pipe
- 49.  828" pipe
- 50.  864" pipe
- 51.  900" pipe
- 52.  936" pipe
- 53.  972" pipe
- 54.  1008" pipe
- 55.  1044" pipe
- 56.  1080" pipe
- 57.  1116" pipe
- 58.  1152" pipe
- 59.  1188" pipe
- 60.  1224" pipe
- 61.  1260" pipe
- 62.  1296" pipe
- 63.  1332" pipe
- 64.  1368" pipe
- 65.  1404" pipe
- 66.  1440" pipe
- 67.  1476" pipe
- 68.  1512" pipe
- 69.  1548" pipe
- 70.  1584" pipe
- 71.  1620" pipe
- 72.  1656" pipe
- 73.  1692" pipe
- 74.  1728" pipe
- 75.  1764" pipe
- 76.  1800" pipe
- 77.  1836" pipe
- 78.  1872" pipe
- 79.  1908" pipe
- 80.  1944" pipe
- 81.  1980" pipe
- 82.  2016" pipe
- 83.  2052" pipe
- 84.  2088" pipe
- 85.  2124" pipe
- 86.  2160" pipe
- 87.  2196" pipe
- 88.  2232" pipe
- 89.  2268" pipe
- 90.  2304" pipe
- 91.  2340" pipe
- 92.  2376" pipe
- 93.  2412" pipe
- 94.  2448" pipe
- 95.  2484" pipe
- 96.  2520" pipe
- 97.  2556" pipe
- 98.  2592" pipe
- 99.  2628" pipe
- 100.  2664" pipe
- 101.  2700" pipe
- 102.  2736" pipe
- 103.  2772" pipe
- 104.  2808" pipe
- 105.  2844" pipe
- 106.  2880" pipe
- 107.  2916" pipe
- 108.  2952" pipe
- 109.  2988" pipe
- 110.  3024" pipe
- 111.  3060" pipe
- 112.  3096" pipe
- 113.  3132" pipe
- 114.  3168" pipe
- 115.  3204" pipe
- 116.  3240" pipe
- 117.  3276" pipe
- 118.  3312" pipe
- 119.  3348" pipe
- 120.  3384" pipe
- 121.  3420" pipe
- 122.  3456" pipe
- 123.  3492" pipe
- 124.  3528" pipe
- 125.  3564" pipe
- 126.  3600" pipe
- 127.  3636" pipe
- 128.  3672" pipe
- 129.  3708" pipe
- 130.  3744" pipe
- 131.  3780" pipe
- 132.  3816" pipe
- 133.  3852" pipe
- 134.  3888" pipe
- 135.  3924" pipe
- 136.  3960" pipe
- 137.  3996" pipe
- 138.  4032" pipe
- 139.  4068" pipe
- 140.  4104" pipe
- 141.  4140" pipe
- 142.  4176" pipe
- 143.  4212" pipe
- 144.  4248" pipe
- 145.  4284" pipe
- 146.  4320" pipe
- 147.  4356" pipe
- 148.  4392" pipe
- 149.  4428" pipe
- 150.  4464" pipe
- 151.  4500" pipe
- 152.  4536" pipe
- 153.  4572" pipe
- 154.  4608" pipe
- 155.  4644" pipe
- 156.  4680" pipe
- 157.  4716" pipe
- 158.  4752" pipe
- 159.  4788" pipe
- 160.  4824" pipe
- 161.  4860" pipe
- 162.  4896" pipe
- 163.  4932" pipe
- 164.  4968" pipe
- 165.  5004" pipe
- 166.  5040" pipe
- 167.  5076" pipe
- 168.  5112" pipe
- 169.  5148" pipe
- 170.  5184" pipe
- 171.  5220" pipe
- 172.  5256" pipe
- 173.  5292" pipe
- 174.  5328" pipe
- 175.  5364" pipe
- 176.  5400" pipe
- 177.  5436" pipe
- 178.  5472" pipe
- 179.  5508" pipe
- 180.  5544" pipe
- 181.  5580" pipe
- 182.  5616" pipe
- 183.  5652" pipe
- 184.  5688" pipe
- 185.  5724" pipe
- 186.  5760" pipe
- 187.  5796" pipe
- 188.  5832" pipe
- 189.  5868" pipe
- 190.  5904" pipe
- 191.  5940" pipe
- 192.  5976" pipe
- 193.  6012" pipe
- 194.  6048" pipe
- 195.  6084" pipe
- 196.  6120" pipe
- 197.  6156" pipe
- 198.  6192" pipe
- 199.  6228" pipe
- 200.  6264" pipe
- 201.  6300" pipe
- 202.  6336" pipe
- 203.  6372" pipe
- 204.  6408" pipe
- 205.  6444" pipe
- 206.  6480" pipe
- 207.  6516" pipe
- 208.  6552" pipe
- 209.  6588" pipe
- 210.  6624" pipe
- 211.  6660" pipe
- 212.  6696" pipe
- 213.  6732" pipe
- 214.  6768" pipe
- 215.  6804" pipe
- 216.  6840" pipe
- 217.  6876" pipe
- 218.  6912" pipe
- 219.  6948" pipe
- 220.  6984" pipe
- 221.  7020" pipe
- 222.  7056" pipe
- 223.  7092" pipe
- 224.  7128" pipe
- 225.  7164" pipe
- 226.  7200" pipe
- 227.  7236" pipe
- 228.  7272" pipe
- 229.  7308" pipe
- 230.  7344" pipe
- 231.  7380" pipe
- 232.  7416" pipe
- 233.  7452" pipe
- 234.  7488" pipe
- 235.  7524" pipe
- 236.  7560" pipe
- 237.  7596" pipe
- 238.  7632" pipe
- 239.  7668" pipe
- 240.  7704" pipe
- 241.  7740" pipe
- 242.  7776" pipe
- 243.  7812" pipe
- 244.  7848" pipe
- 245.  7884" pipe
- 246.  7920" pipe
- 247.  7956" pipe
- 248.  7992" pipe
- 249.  8028" pipe
- 250.  8064" pipe
- 251.  8100" pipe
- 252.  8136" pipe
- 253.  8172" pipe
- 254.  8208" pipe
- 255.  8244" pipe
- 256.  8280" pipe
- 257.  8316" pipe
- 258.  8352" pipe
- 259.  8388" pipe
- 260.  8424" pipe
- 261.  8460" pipe
- 262.  8496" pipe
- 263.  8532" pipe
- 264.  8568" pipe
- 265.  8604" pipe
- 266.  8640" pipe
- 267.  8676" pipe
- 268.  8712" pipe
- 269.  8748" pipe
- 270.  8784" pipe
- 271.  8820" pipe
- 272.  8856" pipe
- 273.  8892" pipe
- 274.  8928" pipe
- 275.  8964" pipe
- 276.  9000" pipe
- 277.  9036" pipe
- 278.  9072" pipe
- 279.  9108" pipe
- 280.  9144" pipe
- 281.  9180" pipe
- 282.  9216" pipe
- 283.  9252" pipe
- 284.  9288" pipe
- 285.  9324" pipe
- 286.  9360" pipe
- 287.  9396" pipe
- 288.  9432" pipe
- 289.  9468" pipe
- 290.  9504" pipe
- 291.  9540" pipe
- 292.  9576" pipe
- 293.  9612" pipe
- 294.  9648" pipe
- 295.  9684" pipe
- 296.  9720" pipe
- 297.  9756" pipe
- 298.  9792" pipe
- 299.  9828" pipe
- 300.  9864" pipe
- 301.  9900" pipe
- 302.  9936" pipe
- 303.  9972" pipe
- 304.  10008" pipe
- 305.  10044" pipe
- 306.  10080" pipe
- 307.  10116" pipe
- 308.  10152" pipe
- 309.  10188" pipe
- 310.  10224" pipe
- 311.  10260" pipe
- 312.  10296" pipe
- 313.  10332" pipe
- 314.  10368" pipe
- 315.  10404" pipe
- 316.  10440" pipe
- 317.  10476" pipe
- 318.  10512" pipe
- 319.  10548" pipe
- 320.  10584" pipe
- 321.  10620" pipe
- 322.  10656" pipe
- 323.  10692" pipe
- 324.  10728" pipe
- 325.  10764" pipe
- 326.  10800" pipe
- 327.  10836" pipe
- 328.  10872" pipe
- 329.  10908" pipe
- 330.  10944" pipe
- 331.  10980" pipe
- 332.  11016" pipe
- 333.  11052" pipe
- 334.  11088" pipe
- 335.  11124" pipe
- 336.  11160" pipe
- 337.  11196" pipe
- 338.  11232" pipe
- 339.  11268" pipe
- 340.  11304" pipe
- 341.  11340" pipe
- 342.  11376" pipe
- 343.  11412" pipe
- 344.  11448" pipe
- 345.  11484" pipe
- 346.  11520" pipe
- 347.  11556" pipe
- 348.  11592" pipe
- 349.  11628" pipe
- 350.  11664" pipe
- 351.  11700" pipe
- 352.  11736" pipe
- 353.  11772" pipe
- 354.  11808" pipe
- 355.  11844" pipe
- 356.  11880" pipe
- 357.  11916" pipe
- 358.  11952" pipe
- 359.  11988" pipe
- 360.  12024" pipe
- 361.  12060" pipe
- 362.  12096" pipe
- 363.  12132" pipe
- 364.  12168" pipe
- 365.  12204" pipe
- 366.  12240" pipe
- 367.  12276" pipe
- 368.  12312" pipe
- 369.  12348" pipe
- 370.  12384" pipe
- 371.  12420" pipe
- 372.  12456" pipe
- 373.  12492" pipe
- 374.  12528" pipe
- 375.  12564" pipe
- 376.  12600" pipe
- 377.  12636" pipe
- 378.  12672" pipe
- 379.  12708" pipe
- 380.  12744" pipe
- 381.  12780" pipe
- 382.  12816" pipe
- 383.  12852" pipe
- 384.  12888" pipe
- 385.  12924" pipe
- 386.  12960" pipe
- 387.  12996" pipe
- 388.  13032" pipe
- 389.  13068" pipe
- 390.  13104" pipe
- 391.  13140" pipe
- 392.  13176" pipe
- 393.  13212" pipe
- 394.  13248" pipe
- 395.  13284" pipe
- 396.  13320" pipe
- 397.  13356" pipe
- 398.  13392" pipe
- 399.  13428" pipe
- 400.  13464" pipe
- 401.  13500" pipe
- 402.  13536" pipe
- 403.  13572" pipe
- 404.  13608" pipe
- 405.  13644" pipe
- 406.  13680" pipe
- 407.  13716" pipe
- 408.  13752" pipe
- 409.  13788" pipe
- 410.  13824" pipe
- 411.  13860" pipe
- 412.  13896" pipe
- 413.  13932" pipe
- 414.  13968" pipe
- 415.  14004" pipe
- 416.  14040" pipe
- 417.  14076" pipe
- 418.  14112" pipe
- 419.  14148" pipe
- 420.  14184" pipe
- 421.  14220" pipe
- 422.  14256" pipe
- 423.  14292" pipe
- 424.  14328" pipe
- 425.  14364" pipe
- 426.  14400" pipe
- 427.  14436" pipe
- 428.  14472" pipe
- 429.  14508" pipe
- 430.  14544" pipe
- 431.  14580" pipe
- 432.  14616" pipe
- 433.  14652" pipe
- 434.  14688" pipe
- 435.  14724" pipe
- 436.  14760" pipe
- 437.  14796" pipe
- 438.  14832" pipe
- 439.  14868" pipe
- 440.  14904" pipe
- 441.  14940" pipe
- 442.  14976" pipe
- 443.  15012" pipe
- 444.  15048" pipe
- 445.  15084" pipe
- 446.  15120" pipe
- 447.  15156" pipe
- 448.  15192" pipe
- 449.  15228" pipe
- 450.  15264" pipe
- 451.  15300" pipe
- 452.  15336" pipe
- 453.  15372" pipe
- 454.  15408" pipe
- 455.  15444" pipe
- 456.  15480" pipe
- 457.  15516" pipe
- 458.  15552" pipe
- 459.  15588" pipe
- 460.  15624" pipe
- 461.  15660" pipe
- 462.  15696" pipe
- 463.  15732" pipe
- 464.  15768" pipe
- 465.  15804" pipe
- 466.  15840" pipe
- 467.  15876" pipe
- 468.  15912" pipe
- 469.  15948" pipe
- 470.  15984" pipe
- 471.  16020" pipe
- 472.  16056" pipe
- 473.  16092" pipe
- 474.  16128" pipe
- 475.  16164" pipe
- 476.  16200" pipe
- 477.  16236" pipe
- 478.  16272" pipe
- 479.  16308" pipe
- 480.  16344" pipe
- 481.  16380" pipe
- 482.  16416" pipe
- 483.  16452" pipe
- 484.  16488" pipe
- 485.  16524" pipe
- 486.  16560" pipe
- 487.  16596" pipe
- 488.  16632" pipe
- 489.  16668" pipe
- 490.  16704" pipe
- 491.  16740" pipe
- 492.  16776" pipe
- 493.  16812" pipe
- 494.  16848" pipe
- 495.  16884" pipe
- 496.  16920" pipe
- 497.  16956" pipe
- 498.  16992" pipe
- 499.  17028" pipe
- 500.  17064" pipe
- 501.  17100" pipe
- 502.  17136" pipe
- 503.  17172" pipe
- 504.  17208" pipe
- 505.  1

