

LAYOUT \_\_\_\_\_ INSP 4 \_\_\_\_\_  
 INSP 2 1/11/05 INSP 5 \_\_\_\_\_  
 INSP 3 \_\_\_\_\_ INSP 6 \_\_\_\_\_

ISSUE DATE: 1/5/2005 P 521641

APPROVAL DATE: 4/20/05 A 43979

**PERMIT INDEXED**  
 TAX ID #04-367871

**ON-SITE SEWAGE DISPOSAL SYSTEM  
 HOWARD COUNTY HEALTH DEPARTMENT  
 BUREAU OF ENVIRONMENTAL HEALTH**

Fogles Septic Clean, Inc IS PERMITTED TO INSTALL  ALTER

ADDRESS: 580 Obrecht Road, Sykesville PHONE NUMBER: 410-795-5670

SUBDIVISION: Waterford Farms LOT NUMBER: 23

ADDRESS: 3216 Eleanors Garden Way PROPERTY OWNER: Toll MD II, LP

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 200' HOUSE SERVED BY PUBLIC WATER

*3-85' Trenches  
 Inlet 4', Bottom 5.5'  
 4' Edge to Edge*

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 5.5 feet below original grade. Effective area begins at 4.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box at the highest elevation in the SDA.
NOTES:	<i>SAO</i> <i>RA - 2" - 3" - 4" - 6" - 8" - 10" - 12" - 14" - 16" - 18" - 20" - 22" - 24" - 26" - 28" - 30" - 32" - 34" - 36" - 38" - 40" - 42" - 44" - 46" - 48" - 50" - 52" - 54" - 56" - 58" - 60" - 62" - 64" - 66" - 68" - 70" - 72" - 74" - 76" - 78" - 80" - 82" - 84" - 86" - 88" - 90" - 92" - 94" - 96" - 98" - 100"</i> <i>IF MOTTLES SEEN CALL OFFICE FOR TRENCH LENGTH DECISION</i>

PLANS APPROVED: Kevin J. Bell Reviewed by: (KN) DATE: 9/13/04

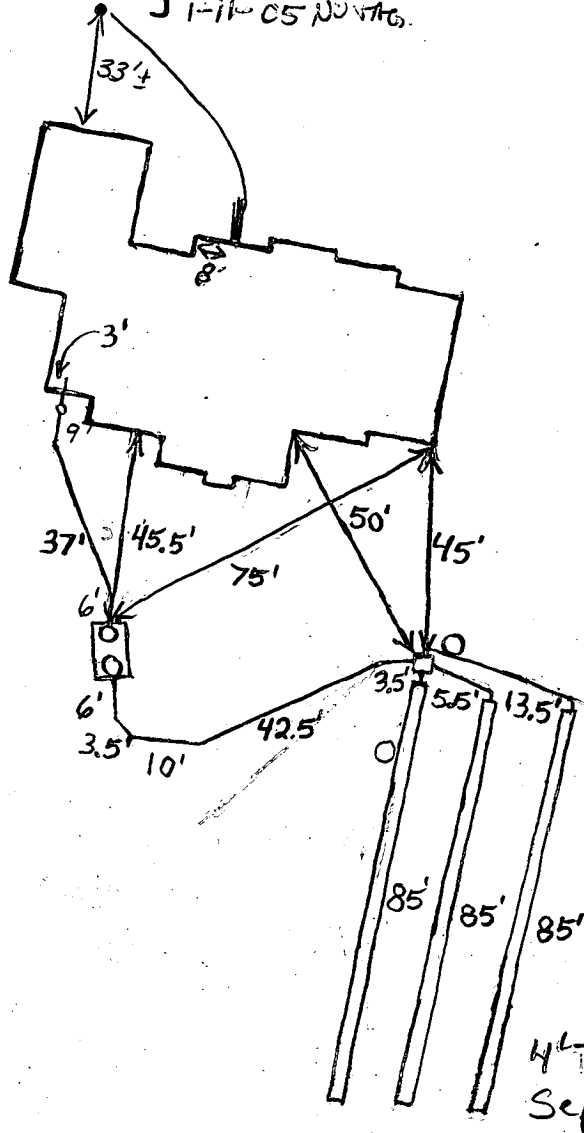
NOTES: PERMIT VOID AFTER 2 YEARS  
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS  
 WATERTIGHT SEPTIC TANKS REQUIRED  
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED  
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED  
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

*No future bp's for bedrooms due to top 1/3 SDA SHALLOW BEDROCK. SDA comprimised.*  
 (KN)

AA3979

Well-No Tag NOT TO SCALE  
1-11-05 NO TAG.



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	5.5'
NUMBER OF TRENCHES		3
TOTAL LENGTH		255'
ABSORPTION AREA		765' + Some Sidewall
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		No

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	✓
2-Comp. CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1.5'
BAFFLES	Yes
BAFFLE FILTER	Yes
MANHOLE LOC	Front + Rear
6" PORT LOC	None
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

PRE-CONSTRUCTION 1/5/04 Easement staked O.K. to install one 80' and one 85' trench with an inlet at 3.5' and a bottom at 6'.

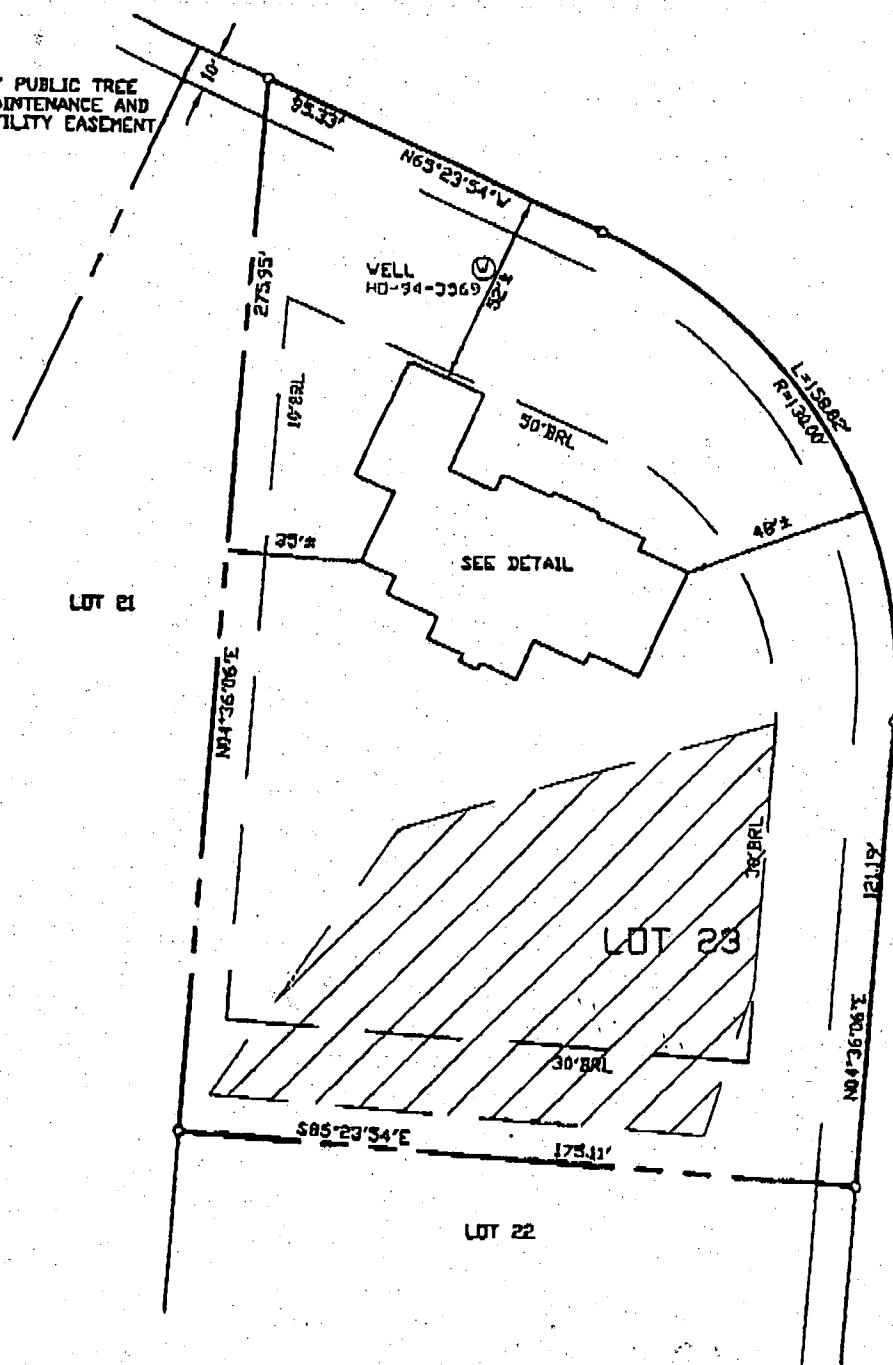
INSTALLATION This will conserve easement area. Kurt called at 3:00 PM. Installer ran into rock. Told him to stop installation until someone from our office can get out there. (BB) 1/7/05 Need house connection. Everything else completed. Trenches were installed in the middle of the septic easement. Top 1/3 of easement unusable for conventional systems. 1-11-05 WPT Well criteria met except NEEDS WELL TAG! (KN) 4/20/05 House connection made. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 4/20/05

NO ↑ in BEDROOMS ALLOWED!

10' PUBLIC TREE  
MAINTENANCE AND  
UTILITY EASEMENT



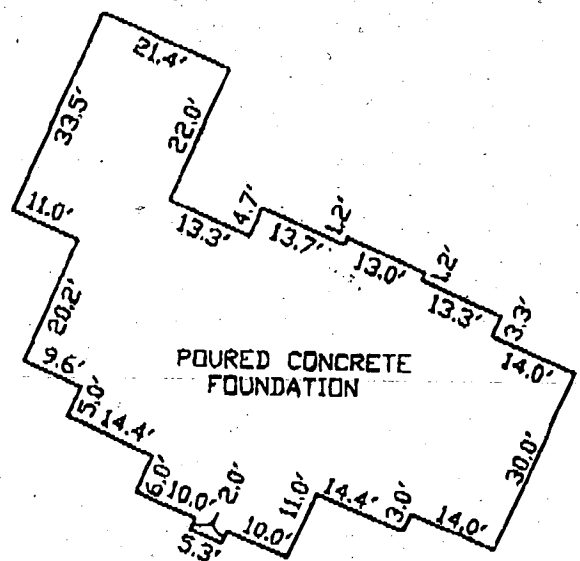
ELEANORS  
GARDEN WAY  
PUBLIC ACCESS PLACE  
(40' R/W)

*1/4/05*  
*Wall Check*  
*OK*  
*1:50*  
*Scale*

TOP OF FOUNDATION WALL ELEVATION = 574.3'

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 11/30/04; AND THAT THE PROPERTY OUTLINE SHOWN HEREON IS BASED ON THE PLAT PREPARED BY FSH ASSOCIATES, INC. ENTITLED "WATERFORD FARMS LOTS 1 THRU 45", AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY AS PLAT No.16166



~FOUNDATION DETAIL~

*[Handwritten signature]*

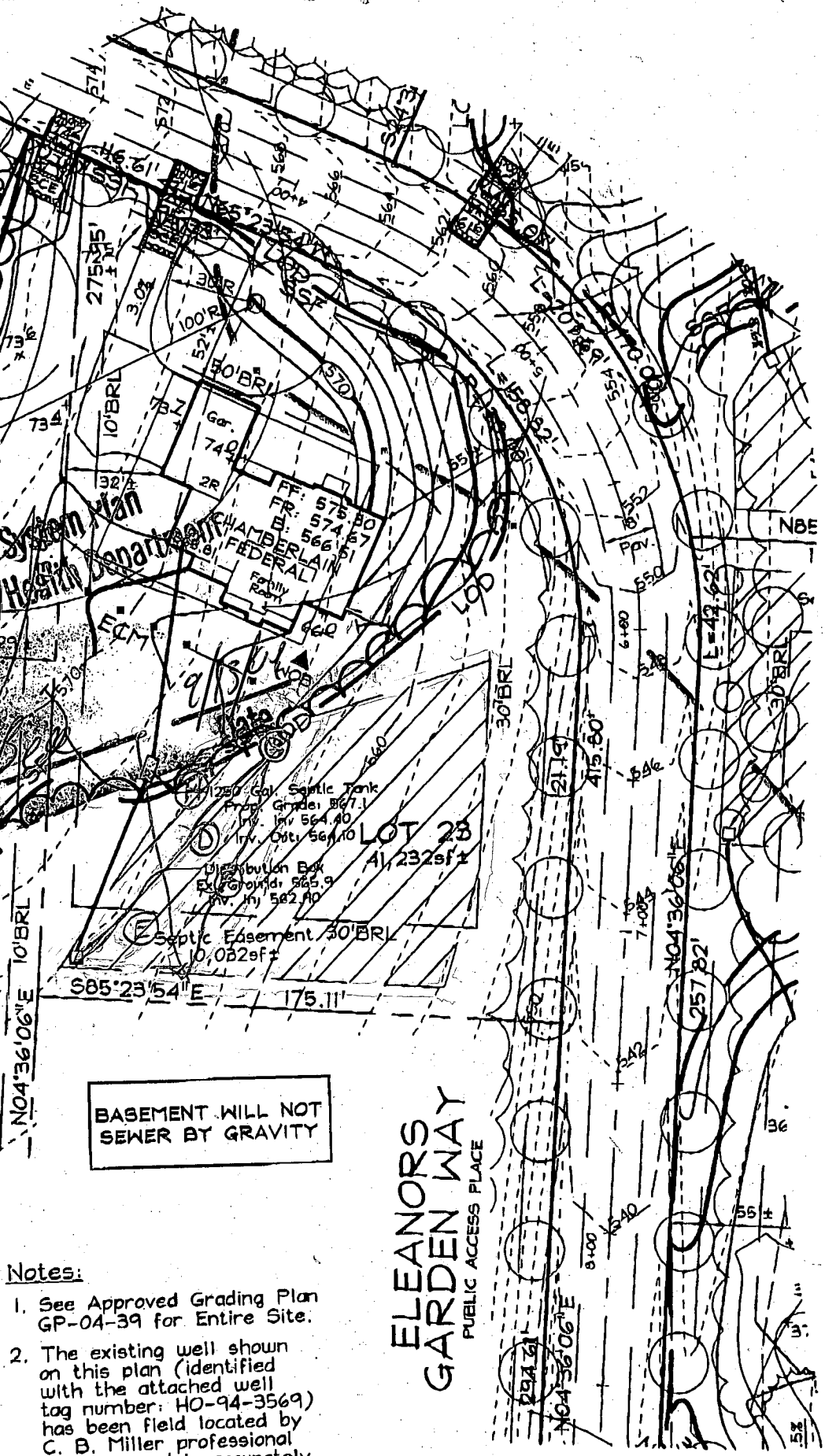
7/23/04

Approved Septic System Plan  
Howard County Health Department

Signature

Top 1/3 SDA  
SHALLOW  
BEDROCK

Maryland State Grid (NAD 83/91)



BASEMENT WILL NOT SEWER BY GRAVITY

Notes:

1. See Approved Grading Plan GP-04-39 for Entire Site.
2. The existing well shown on this plan (identified with the attached well tag number: HO-94-3569) has been field located by C. B. Miller professional surveyor and is accurately shown.

# FSH Associates

Engineers Planners Surveyors  
 8318 Forrest Street - Ellicott City, MD 21043  
 Tel: 410-750-2251 Fax: 410-750-7350  
 E-mail: info@fsha.biz

## OWNER/DEVELOPER

Toll MD II, LP  
 7164 Columbia Gateway Drive  
 Suite 230  
 Columbia, Maryland 21046  
 410.872.9185

DESIGN BY: PS  
 DRAWN BY: PS  
 CHECKED BY: ZYF  
 SCALE: 1"=50'  
 DATE: Sept. 03, 2004  
 W.O. No.: 3217  
 SHEET No.: 1 OF 1

## LOT RESITE LOT 23 CATTAIL TRACE

TAX MAPS 13, 14, 20 & 21  
 GRIDS 7, 12, 19 & 24  
 4TH ELECTION DISTRICT

PARCEL 20, 67, & 312  
 HOWARD COUNTY, MARYLAND

GP-04-39



**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 FAX: (410)313-2648**

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

**NOTE:** The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogles Well Drilling Telephone #: 410-795-5670  
Address: 580 Obrecht Rd  
Sylkesville md 21789

(Must circle one) Licensed Plumber  Licensed Well Driller  Licensed Well Pump Installer   
License # and name of individual responsible for the field installation:

Name (Print): Allen Compton License# MSD009  
\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Toll Brothers Telephone #: 410-489-6295  
Subdivision: Cattail Trace Lot #: 23 Well Tag #: HO-94-569  
Site Address: 3216 Cleaners Garden Way

Submersible Pump Data

Make: CowidS  
Model #: 75B05422  
Pump Capacity: 7 GPM  
Well Yield: 15 GPM

Pitless Adapter  
Make: Campbell  
Model #: N/A  
Depth: 36 (36" min)

Well Cap and Electric Conduit  
Two piece watertight cap: yes  
Screened, vented well cap: yes  
Cap secured to casing: yes  
Conduit min 18" B.G.: yes  
Conduit secured to well cap: yes

Depth of well encountered at time of pump installation: 205 (feet)  
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors or Cable guards are required - Must circle one  
Safety rope, if used, attached to inside of well casing with eye bolt N/A

Piping to house

Type: 1" Black Plastic  
PSI: 160 (160 psi min)  
Depth of supply line: 42 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: yes  
Approximate length of sleeve: 5  
Sleeve caulked and sealed properly: yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Allen Compton

date: 1/28/05

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: \_\_\_\_\_

Date Insp. Approved: 4/20/05

- Inspection Data:
- Pitless adapter and water supply line at least 36" below grade
  - Two piece cap installed and attached to casing securely
  - Elec. conduit extends at least 18" below grade/attached to cap properly
  - Safety rope installed inside of well casing
  - Correct well tag attached properly and casing 8" above finished grade
  - Water supply line sleeved adequately at house connection
  - Adequate grout observed below pitless adapter

BB

C1 14332 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER A515227-V

ST/CO USE ONLY DATE RECEIVED MM DD YY

DATE WELL COMPLETED MM DD YY 1 10 03

DEPTH OF WELL 22 205 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-3569

OWNER GST TRUST + SISTER TRUST STREET OR RFD ROAD C TOWN GLENWOOD SUBDIVISION WATERFORD FARMS SECTION LOT 23

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. Rows: Brown Shale 0-44, Gray Granite 44-205

GROUTING RECORD (yes) (no) (Y) (N)

WELL HAS BEEN GROUTED (Y) TYPE OF GROUTING MATERIAL (C) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 15 NO. OF POUNDS 1410 GALLONS OF WATER 90 DEPTH OF GROUT SEAL 0-44

CASING RECORD (casing types insert appropriate code below)

MAIN CASING TYPE (ST) Nominal diameter top (main) casing 6 Total depth of main casing 48

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

SCREEN RECORD screen type or open hole (ST) (BR) (HO) (PL) (OT)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (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. MS D024 DRILLERS SIGNATURE Joseph L. Mayne

LIC. NO. D

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

DEPTH (nearest ft.) 46 205

SCREEN RECORD (ST) (BR) (HO) (PL) (OT) SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH) 56 60

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

PUMPING TEST

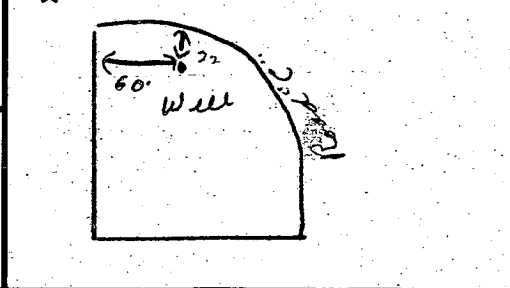
HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 15 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 6.6 ft. WHEN PUMPING 9.3 ft. TYPE OF PUMP USED (for test) (S) submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES or NO) YES (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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) (+) above } LAND SURFACE (-) below } 2 (nearest foot)

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)







B 1 6756

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 517434

STATE PERMIT NUMBER

HO-94-3569 fill in this form completely

Date Received (APA) 08/22/02

OWNER INFORMATION

GS Trust & Sister Trust 3 Wyndam Ct Lutherville Md 21093

B 3 LOCATION OF WELL

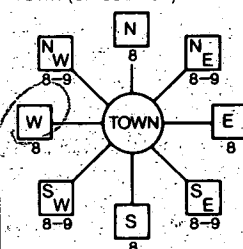
Howard Waterford Farms Glenwood 4 1/2 miles from town

DRILLER INFORMATION

Joseph L Mayne MS D024 Joseph L Mayne Well Drilling 5512 Ridge Rd Mt. Airy Md 21771

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Road C NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



30 34 30 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: 13 BLK: 24 PARCEL: 13

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION (circled) FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) INDUSTRIAL, COMMERCIAL, DEWATERING PUBLIC WATER SUPPLY WELL TEST, OBSERVATION, MONITORING GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD AS15227-V COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 11/20/02 Steve R Krueger 11/20/03 CO SIGNATURE EXP. DATE NORTH GRID 520 000 EAST GRID 780 000

APPROXIMATE DEPTH OF WELL 260 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST

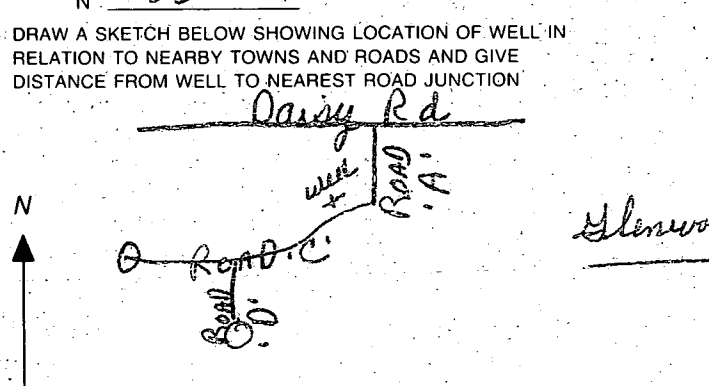
METHOD OF DRILLING (circle one)

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

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. Well No Insp 11/10/03 Glad 9:30



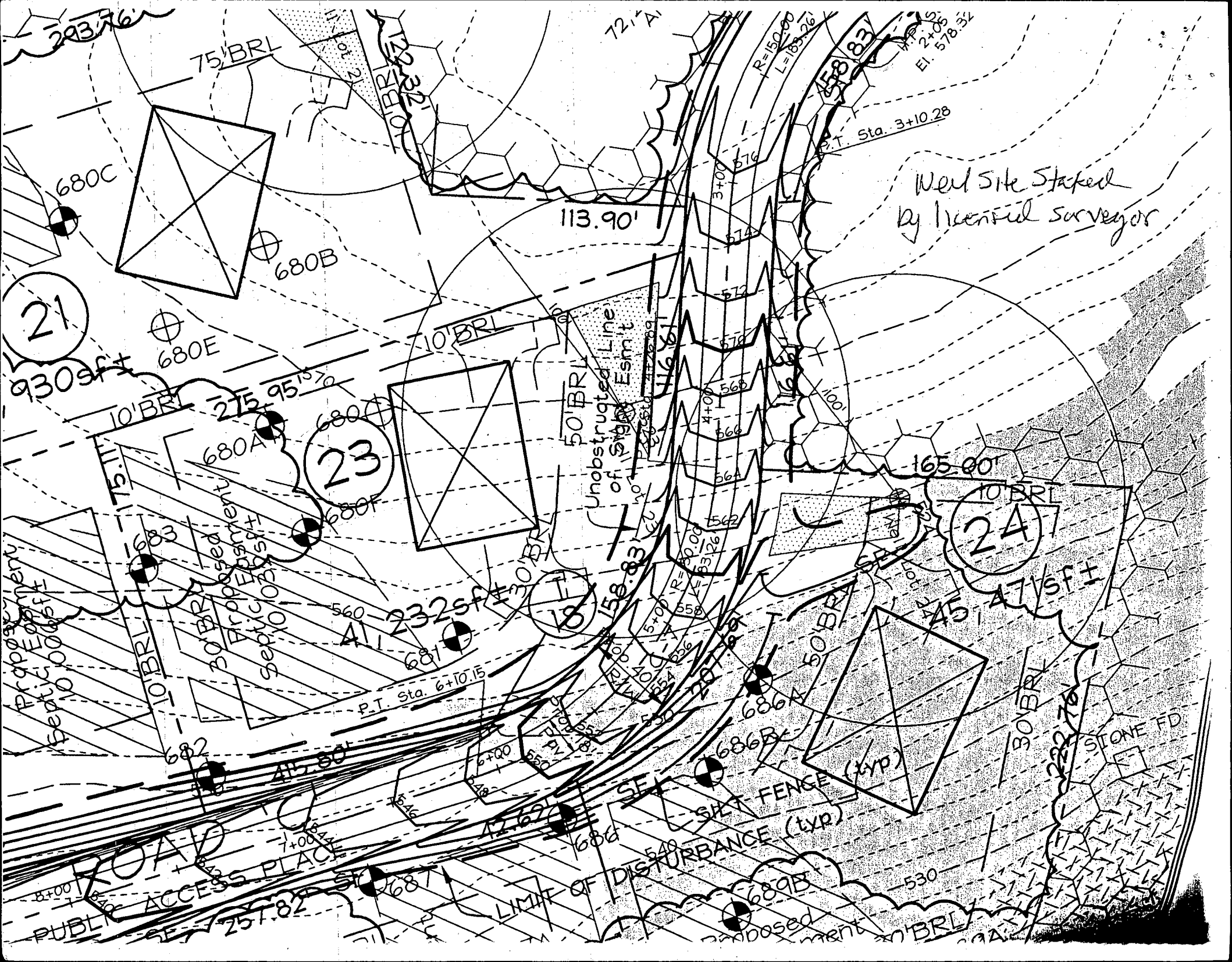
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

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

APPROX. PERMIT NUMBER G PERMIT No. HO-94-3569

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



293.76'

75' BRL

72' A'

R=150.00  
L=83.26'

558' 83'

2+05  
El. 578.34

P.T. Sta. 3+10.28

Well Site Staked  
by licensed surveyor

113.90'

21

930.9ft

680E

10' BRL

50' BRL

Unobstructed Line  
of Sight Esm't

23

680A

680B

165.00'

24

10' BRL

Proposed Easement  
Septic System

10' BRL

Proposed Easement  
Septic System

232sf

18

158.83'

50' BRL

558' 83'

100'

45' 47' SF ±

P.T. Sta. 6+10.15

682

415.80'

12.62'

688

540

686A

686B

50' BRL

30' BRL

STONE FD

ROAD  
ACCESS PLACE

LIMIT OF DISTURBANCE

SHUT FENCE (typ)

SHUT FENCE (typ)

689B

530

Proposed Easement  
Septic System

30' BRL

# 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 \_\_\_\_\_

DATE \_\_\_\_\_

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 \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION \_\_\_\_\_ LOT NO. \_\_\_\_\_

ROAD AND DESCRIPTION \_\_\_\_\_

TAX MAP \_\_\_\_\_ PARCEL # \_\_\_\_\_

SIZE OF LOT \_\_\_\_\_ 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.

(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

A515227-V  
COUNTY #

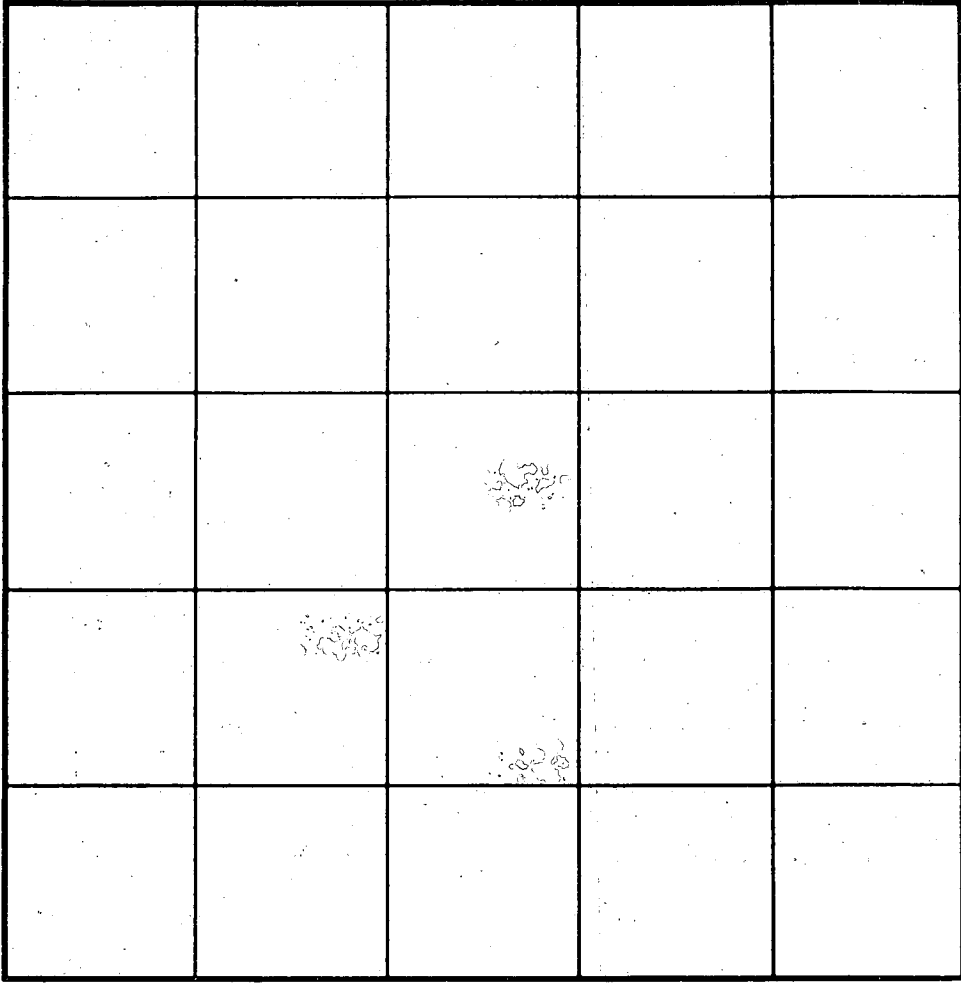
LOT 23

SOIL PROFILE

0' **680F**  
brown topsoil  
20-40% ROCK FRAGS  
orange-brown clay lm  
3'  
tan-red fine sandy lm  
12'5"  
20-30% ROCK FRAGS

SOIL PROFILE

0' **683A**  
orange-brn cl lm  
4'  
red-brn fine sl  
15-20% ROCK FRAGS  
13'  
**683C**  
o-brn cl lm  
3'  
red-orange fine sandy lm  
5-10%  
14'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

680E

SEE 680F except

49-60%

REFUSAL

683B

SAME AS 680E

REFUSAL

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
2/4/01	680F	7' T 13'5" V	1:00 pm	1:02 pm	1:08 pm	1:10 pm	10 min	OK
	680E	7' T 12' V	1:33 pm	1:44 pm				FAILS
	683B	9' V	(PULLED - SLOW RATE at 1:44 pm)		BUT ADJUST SOA (OFF) HOLE ANYWAY			FAILS
	683A	13' V	(50% ROCK FRAGS)					OK
	683C	14' V	( " " " " " )					OK

REMARKS: Shallow System Only!

TYPE OF SOIL: Glenelg

TESTED BY: SRK

ALSO PRESENT: Chuck Sharp

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME: \_\_\_\_\_ TRENCH WIDTH: 3'

INLET DEPTH: 3' MAXIMUM BOTTOM DEPTH: 5' SQ. FT./BEDROOM: \_\_\_\_\_

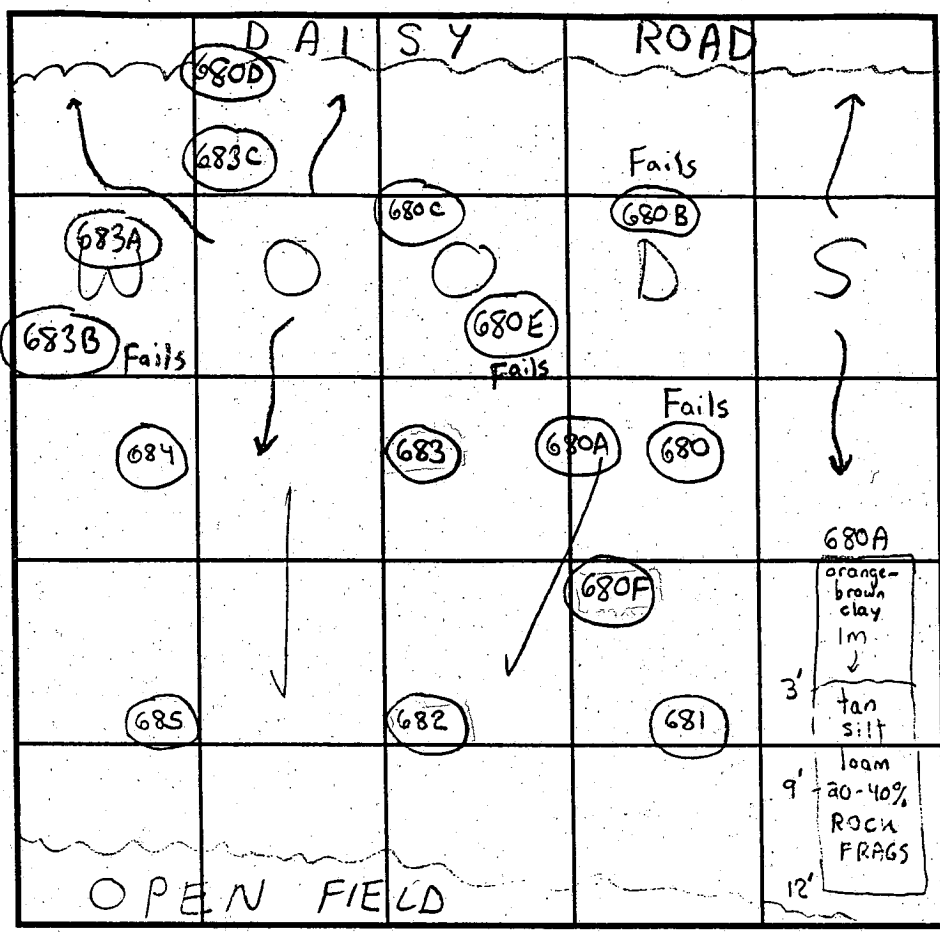
0515227V  
COUNTY #

NOT TO SCALE

Lot 23

SOIL PROFILE  
685  
0' orange-brown clay loam  
4' tan-brown sandy loam  
5-10% ROCK FRAGS  
14'

SOIL PROFILE  
683/681  
0' orange-brown clay loam  
4' tan-silty loam  
5-10% ROCK FRAGS  
13.5'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

684/680C/680D  
orange-red brown clay loam  
3' tan-brown sandy loam  
10-20% ROCK FRAGS  
14'

680 & 680B  
50% ROCK FRAGS  
9-12' HARD

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME	
			START	STOP	START	STOP		
7/27/01	685	5' T 14' V	2:35 pm	2:37 pm	2:37 pm	2:39 pm	2 min	OK
	684	14' V	(VISUAL OK)		SEE SOIL PROFILE			OK
	682	13' V	(VISUAL OK)		SEE SOIL PROFILE			OK
8/7/01	680B	9' V	(>50% ROCK FRAGS)					FAILS
7/27/01	683	5.5' T 13.5' V	3:07 pm	3:15 pm	3:15 pm	3:29 pm	14 min	OK
	680	12' V	(>50% ROCK FRAGS)					FAILS
	681	14' V	(VISUAL OK)		SEE SOIL PROFILE			OK
8/7/01	680A	4.5' T 12' V	2:19 pm	2:22 pm	2:21 pm	2:24 pm	3 min	OK

REMARKS 8/7/01 → 680C 14' V (VISUAL OK) SEE SOIL PROFILE OK  
→ 680D 14' V " " " " " "

TYPE OF SOIL → Tested in Woods → Glenelg  
TESTED BY SRK ALSO PRESENT Chuck Sharp, Matcher

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH 3'

INLET DEPTH 3.5' MAXIMUM BOTTOM DEPTH 5.5' SQ. FT/BEDROOM \_\_\_\_\_

Shallow System Only!

682  
orange-brown clay loam  
2' tan-orange sandy loam  
5-10% ROCK FRAGS  
13'

GIB2

GIC2

EKB2

N 05°38'40" E 675.50

ONE PD FOR LINE

VEHICULAR INGRESS AND EGRESS RESTRICTED

ROAD A  
MINOR COLLECTOR

ENVIRONMENTAL  
NON-BUILDABLE  
PRESERVATION  
PARCEL 'B'  
74,184sf± HOA OWNED  
AND MAINTAINED

GIB2

GIC2

680D

Proposed Septic Easement 10,018sf±

683C

(21)

54,975sf±

75' BRL

680B

680E

10' BRL

10' BRL

30' BRL

684

Proposed Septic Easement 10,018sf±

683B

680A

680

Proposed Septic Easement 10,018sf±

680F

681

41,232sf±

685

682

ROAD C

PUBLIC ACCESS PLACE

GIB2

687

(25)

45,262sf±

688

Proposed Septic Easement 10,018sf±

687A

688

Proposed Septic Easement 10,018sf±

688A

688B

688C

688D

688E

688F

688G

688H

688I

688J

688K

688L

688M

688N

688O

688P

688Q

688R

688S

688T

688U

688V

688W

688X

688Y

688Z

688AA

688AB

688AC

688AD

688AE

688AF

688AG

688AH

688AI

688AJ

688AK

688AL

688AM

688AN

688AO

688AP

688AQ

688AR

688AS

688AT

688AU

688AV

688AW

688AX

688AY

688AZ

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688BB

688BC

688BD

688BE

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688BP

688BQ

688BR

688BS

688BT

688BU

688BV

688BW

688BX

688BY

688BZ

688CA

688CB

688CC

688CD

688CE

688CF

688CG

688CH

688CI

688CJ

688CK

688CL

688CM

688CN

688CO

688CP

688CQ

688CR

688CS

688CT

688CU

688CV

688CW

688CX

688CY

688CZ

688DA

688DB

688DC

688DD

688DE

688DF

688DG

688DH

688DI

688DJ

688DK

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688DM

688DN

688DO

688DP

688DQ

688DR

688DS

688DT

688DU

688DV

688DW

688DX

688DY

688DZ

688EA

688EB

688EC

688ED

688EE

688EF

688EG

688EH

688EI

688EJ

688EK

688EL

688EM

688EN

688EO

688EP

688EQ

688ER

688ES

688ET

688EU

688EV

688EW

688EX

688EY

688EZ

688FA

688FB

688FC

688FD

688FE

688FF

688FG

688FH

688FI

688FJ

688FK

688FL

688FM

688FN

688FO

688FP

688FQ

688FR

688FS

688FT

688FU

688FV

688FW

688FX

688FY

688FZ

688GA

688GB

688GC

688GD

688GE

688GF

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688GJ

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688GS

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688GU

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688IG

688IH

688II

688IJ

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688IL

688IM

688IN

688IO

688IP

688IQ

688IR

688IS

688IT

688IU

688IV

688IW

688IX

688IY

688IZ

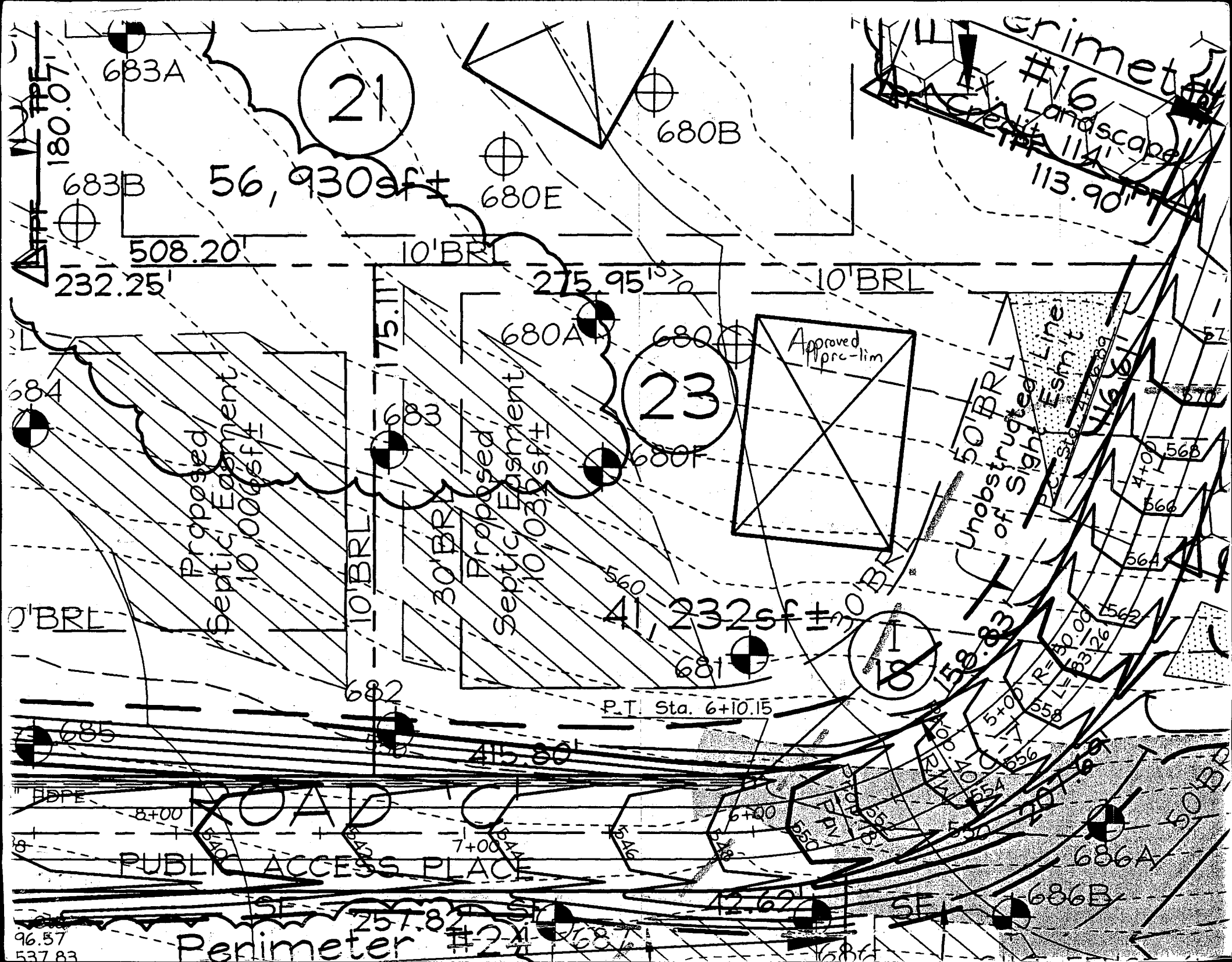
688JA

688JB

688JC

688JD

68



21

23

18

96.57  
537.83

Perimeter #2

Cricket #16  
Landscape #11  
113.90'

PUBLIC ACCESS PLACE

Approved  
Prec-lim

Unobstructed Line  
of Sight Esm't

Proposed  
Septic Easment  
10,006sf ±

Proposed  
Septic Easment  
10,035sf ±

HDPE

8+00

7+00

6+00

5+00

4+00

SE

SE

SW

SW

NE

NE



**FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.**  
 1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

**REPORT OF ANALYSIS**

Laboratory ID #:	54482	Account #:	1930
Reference:	Toll Brothers Cattail Trace Lot 23	Company:	Fogle's Well Drilling
Location:	3216 Eleanors Garden Way Woodbine, MD 21797	Requested By:	Dave Fogle
Date/ Time Collected:	4/12/2005 0800	Source:	Well Water
Date/Time Rec'd:	4/12/2005 0900	Site:	Laundry Room
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	D. Fogle 8194DF	pH:	6.1
		Well #:	HO-94-3569

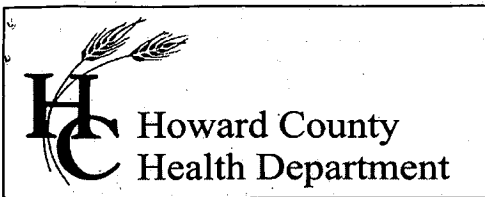
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD
Nitrate	<1.0	mg/L	10	601
Turbidity	6.58	NTU	<10	SM18 2130B
Sand	NS	mg/L	5	Visual/Gravimetric
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.

**NOTES:**

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Sample collected by client, analyzed as received
- 8 pH tested in lab

Reason for Test : Use & Occupancy  
 Building Permit # : 00150260

Date Reported: 4/13/2005



3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(410) 313-1771 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

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

April 21, 2005

Toll MD II, LP  
7164 Columbia Gateway Drive, #230  
Columbia, MD 21046

**SENT VIA FACSIMILE 410-489-6292**

RE: Waterford Farm, Lot 23  
3216 Eleanors Garden Way  
Woodbine, MD 21797  
BP #: B00150260  
Well Permit # HO-94-3569

Dear Sirs:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 04/20/2005. Final approval of the well line connection to the dwelling was approved on 04/20/2005.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

**INTERIM CERTIFICATE OF POTABILITY**

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-94-3569. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Sample(s): 04/12/2005  
Date of Well Completion: 01/10/2003

Approving Authority,  
  
Stuart Oster, R. S.  
Well & Septic Program

cc: Building Inspector's Office  
Community Health Services  
File