

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 57 0208-B

A REPAIR

DISTRICT _____

DATE 6-16-98

DATE SYSTEM APPROVED 7/2/98

INSPECTOR CW

6/8/98
ADAP
6/10/98
C.O. 1pm

CONTRACTOR
TO NOTIFY H.D.
WHEN OLD
DRAINFIELD
RECONNECTED.
NO INSP
NEEDED 7/2/98 CW

04-365003

INDEXED

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

410-313-2640

Hatfield Equipment 410 489 4905 IS PERMITTED TO INSTALL _____ ALTER

ADDRESS 13785 Burntwoods Rd, Gleneig, MD 21737 PHONE 301-854-6172

SUBDIVISION _____ LOT _____ ROAD 7349 Brown Bridge Road

PROPERTY OWNER Fritz Kulla

ADDRESS 7349 Brown Bridge Rd, Fulton, MD 20759

SEPTIC TANK CAPACITY 1000 GALLONS (top seam)

NUMBER OF BEDROOMS 3

125 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED _____

REPAIR - PURPOSE - SEPTIC SYSTEM HAS FAILED.

Call for an inspection when the ground is opened so a sanitarian can recommend repairs. 6/1/98.

APPLICANT CONTENDS
DRAINFIELD'S NOT FAILING,
ONLY WANTS TO HOOK UP
REPLACEMENT TANK TO
EXISTING DRAINFIELDS.
- OK WITH RESEALING
7/2/98

- INSPECTOR'S REPORT OF 6/8 AND 6/10 INDICATES DIFFICULT
SOIL CONDITIONS. ICA TYPE REPAIR RECOMMENDED 6/18/98 CW

PLANS APPROVED BY _____ DATE _____

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

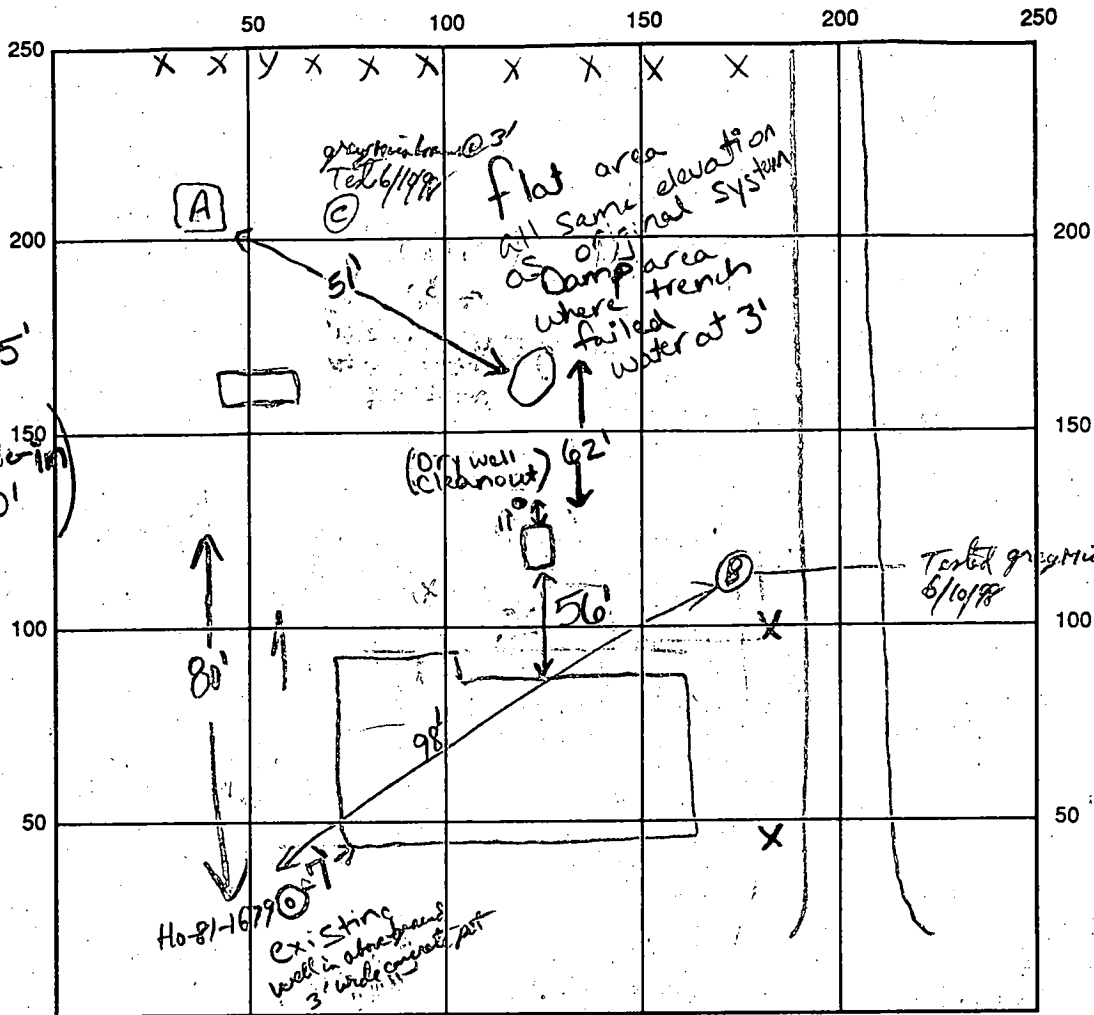
PERMIT VOID AFTER TWO YEARS

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

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

P 57 0208-B



orange clay 1m
grey silt clay
damp sticky quartz pieces
WATER

A
1.0'
10:56 → 11:04
11:04 → 11:24
20 minutes

Brown Bridge INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL _____ CLEANOUTS _____

DISTRIBUTION BOX LEVEL _____

DRAIN FIELD/TITLE DEPTH _____ FT. TRENCH WIDTH _____ FT. INLET DEPTH _____ FT.

EFFECTIVE GRAVEL DEPTH _____ FT. TOTAL LENGTH _____ FT.

NUMBER OF TRENCHES _____ ONE SIDEWALL/BOTTOM AREA _____ SQ. FT.

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

ABSORBENT AREA _____ SQ. FT.

REMARKS: 6-8-98 New septic tank installed and connected to house and existing drywell, drywell pumped by Hatfields; due to questionable soil conditions site will need further evaluation by senior sanitarian on Weid's 6/10/98 to determine the type of repair (RM)
7/2/98 HOMEOWNER WISHES TO RECONNECT EXISTING SYSTEM
AT THIS TIME RATHER THAN CONTINUE WITH INSTALLATION OF NEW DISPOSAL FIELD (C)

DATE SYSTEM APPROVED 7/2/98 INSPECTOR P. Well

**HATFIELD'S EQUIPMENT AND
DEDICATION SERVICES, INC.**

(301) 854-6172

**13785 Burnt Woods Road
Glenelg, Maryland 21737**

Fax (410) 489-4905

Mr. & Mrs. Kulla
7349 Brown Bridge Road
Fulton, MD 20759

Revised Proposal #0237
Septic Repair

June 26, 1998

We propose to supply the labor, materials and equipment to complete the following:

Apply for one septic repair permit

Pump drywell for removal

Remove old tank.

Install a new 1000 gallon top seam concrete tank

Install a new 1000 gallon 2 compartment top seam pump pit.

Install 60 gallon per minute Liberty pump with Myers alarm system.

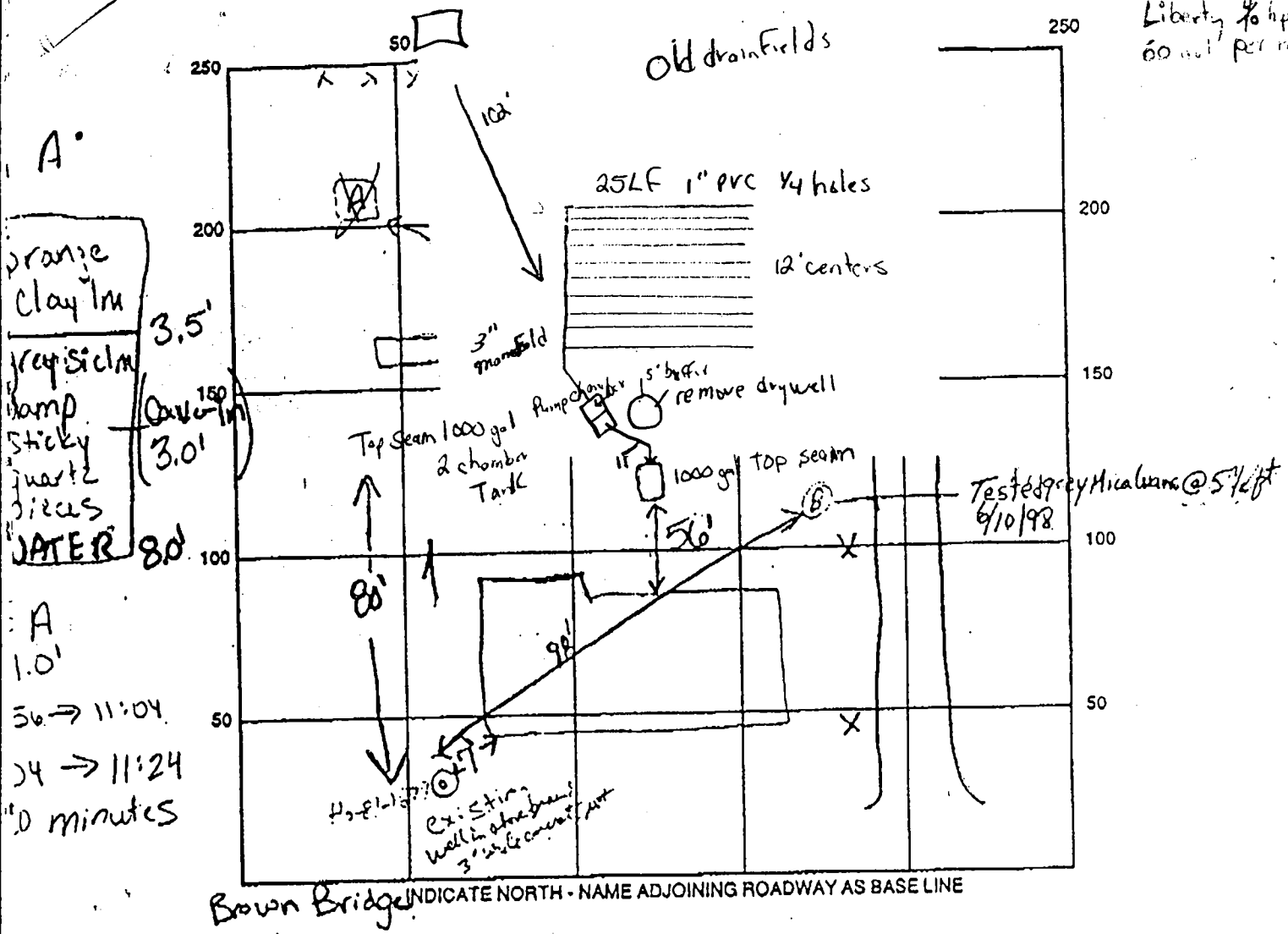
Install 1" line to 3" manifold pipe to new system.

10 trenches, 2.5 ft. deep, 1 ft. wide, 25 ft. long.

Cover system area 10 ft. outside of trenches with filter cloth.

Cover with 1 ft. topsoil, seed and straw areas disturbed.

Liberty 1/2 hp.
60 gal per min pump



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DATE SYSTEM APPROVED _____ INSPECTOR _____

Post-It® Fax Note	7671	Date	6/23/98	# of pages	2
To	Kenny Hatfield	From	Ron Pinkley		
Co./Dept.		Co.	Howard County Health Dept		
Phone #	410-984-0101	Phone #	410-313-2640		
Fax #	410-489-4905	Fax #			



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer
June 18, 1998

Mr. & Mrs. Fritz Kulla
7349 Brown Bridge Road
Fulton, Maryland 20759

RE: Septic Repair
Fritz Kulla Property
7349 Brown Bridge Road

Dear Mr. & Mrs. Kulla:

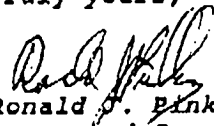
Testing results of June 10, 1998 failed for conventional septic system repair. Due to time limitations full evaluation of slower surface zone was not completed. The only confirmed possibility at this time is installation of a holding tank.

Once this is accomplished, we can devote sufficient time and attention to determine what type, if any, of drain field system could be considered for a more permanent solution. One potential alternative system design is enclosed for your consideration.

If the holding tank becomes the final solution, further consideration should be given to whether sufficient holding tank capacity is available with the existing tank, or if additional capacity would be preferable.

Please contact this office to determine your next course of action, perhaps a meeting to discuss the above details and possible alternatives would be helpful. We are available weekdays between 8:00 a.m. - 5:00 p.m. at 410-313-2640 for scheduling that conference, or to answer any questions concerning this matter.

Truly yours,


Ronald S. Pinkley, R.S.
Water and Sewerage Program

Enclosure
RJP:tl

cc: Hatfield Equipment
File

11 11 10 10

RE: Enclosure for Fritz Kulla Property (7349 Brown Bridge Road)

Low Pressure Dosing, Shallow Trench Design Sewage Disposal System

Assume 3 bedroom house equals 450 gal per day daily sewage flows. Install a total of 250 linear feet of trench. Each lateral trench to be 25' long, 1' wide, 2-1/2' deep, 2' of gravel under 1" diameter schedule 40 (or SDR equivalent) lateral piping. Place 2" gravel cover over 1" pipe, then geotextile fabric cover, then topsoil fill. A soil cap should be at least 12" deep over geotext tile fabric and extend at least 10' in all directions past the drain field layout.

Design soil loading rates are 0.45 gpd/sq ft of effective sidewalls (use both sidewalls only). Because soils at 3' and greater have much lower percolation rates (denser soil structures and textures), the trenches need to be spaced over a basal area of at least 3,000 sq ft. This means at least 12' center to center spacing between trenches and 5' undisturbed soil spacing between trenches where the manifold lines are placed (i.e. 0.15 gpd/sq ft over the basal area). With 1" diameter lateral piping, hole perforations should be 1/4" diameter and 5' spacing apart along each trench (i.e. 5 perforation, per 25' lateral). Force main and manifold should be 3" diameter piping using a center feed design. Top seamed 2 chambered septic tank and a top seamed pump chamber are required. The existing top seamed tank may be used for whichever function it can more readily assume. The above system design is for site number 2 (the one closest to the house).

The design assumes full dosing of all trenches at each dosing cycle. A preferred method to lengthen the system's functional life is to alternate dosing cycles. Only half the trenches are dosing in one cycle (i.e. all even number trenches), this set then rests the next dosing cycle while the odd numbered trenches are dosed. Since only alternating trenches are in use at any given time, spacing between trenches may be reduced to 7' center to center (i.e. 14' center odd to odd, or even to even number trench).

Site number 1 with mottling and denser soils less than 2' below grade, and water grey soils at 3' below grade is more suitable for sand mound system design than any type of in ground system. If a in ground system were contemplated at site number 1, only 1' deep (maximum) trench could be used. Therefore, double the above total trench length (i.e. 500 linear feet) would be required and enhanced pretreatment and timed dosing and alternating cycle dosing is strongly advised.

RJP:tl

1998 JUL - 2 P 1:10
RECEIVED
HOWARD CO. HEALTH DEPT.
ENVIRONMENTAL HEALTH



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer
June 18, 1998

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7349 Brown Bridge Road
Fulton, Maryland 20759

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Ronald J. Pinkley, R.S.
Water and Sewerage Program

Enclosure
RJP:tl

cc: Hatfield Equipment
File

NO OBJECTION
TO RECONNECTION
TO EXISTING DRAINFIELDS
IF APPLICANT SO
DESIRES.
7/2/98
C. [Signature]

RE: Enclosure for Fritz Kulla Property (7349 Brown Bridge Road)

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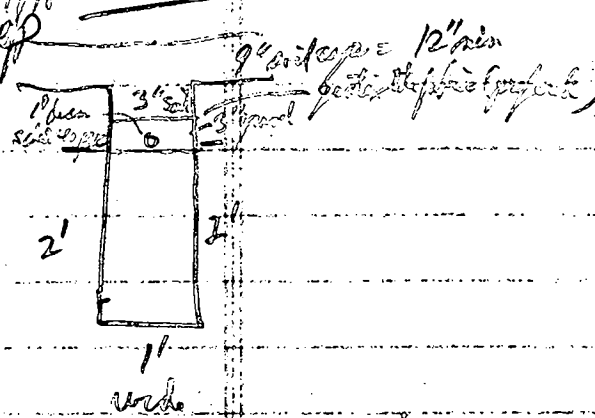
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RJP:tl

Kelly
6/19/98
Site 2

5 1/2 ft to grey soil (containing table)
 slower soil zone depth @ 22 ft (use 15 gpd/100 ft basal area)
 = 3000 gal/acre (Min basal area)
 ÷ 250 L/ft trench = 12 ft trench spacing



Tr Design

30" Max Depth
 24" stone fill under pressure pipe
 [2' effective soil width x 2 actuals = 4 sq ft effective soil width
 x 15 gpd/sq ft = 1.8 gpd/lineal ft of trench]

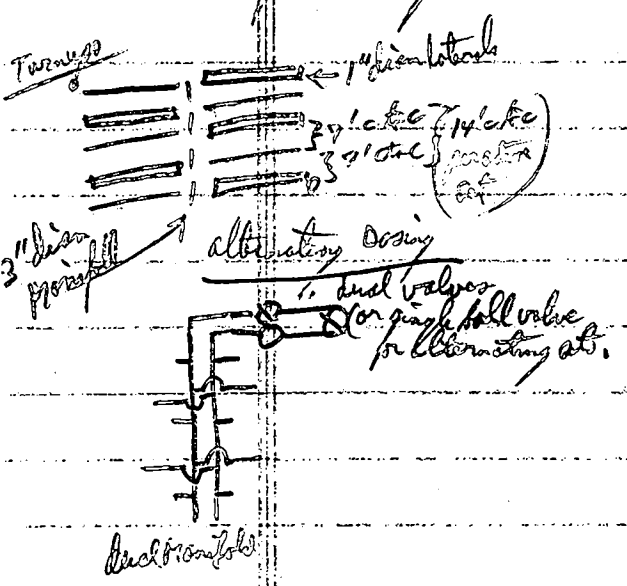
Design 400 gpd
 ÷ 45 gpd/sq ft = 1000 sq ft effective area
 1000 ÷ 4 sq ft = 250 L/ft of trench
 = 10 Trench x 25' long each
 center manifold design

1" lateral pipe diameter
 25' Max length per lateral
 lateral lateral pipe length per 25' trench

104 gpm
 x 5 ft/lateral
 520 gpm
 10 laterals

620 gpm/branch

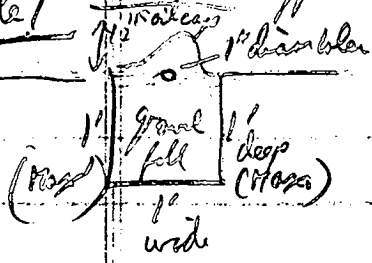
trench loss = 3" dia @ 12 = 0.58/100 ft at 50 gpm
 2" dia
 4.00
 3.54
 11.82 @ 90 ft
 0.81 @ 60 gpm
 2.09/100 ft @ 100 gpm



gravel
 20" vs 24" gravel fill under trench
 = 40" total = 3.33 sq ft effective soil
 vs 4 expression

Not to proceed (Better to hold this area for future sandboxed design when applicable) - say trench would destroy site for future use.

Site



To Design

- 12" max depth
- 12" gravel fill
- 12" Trench width
- 1" diameter laterals
- 1/4" diameter perforations

design 450 gpd / 1000 sq ft
 $\div 45 = 2 \text{ gpd/sq ft}$
 $= 500 \text{ lin ft of Trench}$
 $\div 25 \text{ ft long laterals} = 20 \text{ Trenches total}$

(alternating 10 Trenches/dosing cycle) etc
 $4.5 \text{ gpd/foot} \times 5.0 = 22.5 \text{ gal (Volume of trench)}$
 $\times 5 \text{ doses}$

112.5 gal
 $FR + 17 \text{ gal} \times 2 = 35 \text{ gal}$
 147.5 gal/dose

* perf / laterals

$1.04 \text{ gal/foot (1/4" dia perf)}$
 $\times 5 \text{ perf/foot}$
 5.2
 $\times 10 \text{ lateral/dose} = 52 \text{ gal per lateral}$
 $\times 20 \text{ lateral} = 1040 \text{ gal/dose}$
 $1040 \text{ gal/dose} \div 10 = 104 \text{ gal/dose}$
1049 gal dosing rate (Follow)

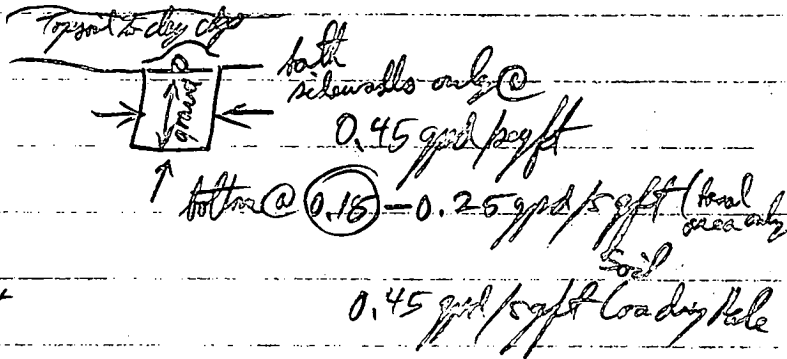
Site #2 - closer to house (grey layers begin @ 5 ft, less noticeable mottling in red layers)
 Site #1 - further from house
 Proposed Leppin System - 7349 Brain Bridge Rd
 Low Pressure Dosing

Subs Say Mottling Common @ 24" (point @ 16")
 Matrix grey @ 36" (24-36" h.S.I.L - S.I.C.L)

LPI Design
Trench Design

Tr. Max Bottom 1 ft
 Tr. width 1 ft - 2 ft

Trench Spacing = Minimum of 4 1/2 - 5 ft of consolidated soil between trenches (i.e. 6 ft to 7 ft spacing center to center)



Design 1
 Design @ 450 gpd
 $\frac{450 \text{ gpd}}{0.45 \text{ gpd/ft}} = 1000 \text{ sq ft effective sidewall}$
 $\frac{1000 \text{ sq ft}}{2 \text{ ft/1 ft}} = 500 \text{ L.F. of Trench}$

Design 2
 Design @ 300 gpd (2 Blr equivalent at 2 pipe to one)
 $\frac{300}{.45} = 667 \text{ sq ft}$
 $\frac{667}{2} = 333 \frac{1}{3} \text{ L.F. of Trench}$

Min Basal Area Needs

$\frac{450 \text{ gpd}}{.15 \text{ gpd/ft}} = 3000 \text{ sq ft basal area}$
 $\frac{3000 \text{ sq ft}}{500 \text{ L.F.}} = 6 \text{ wide spacing Min}$

$\frac{300}{.15} = 2000 \text{ sq ft}$
 $\times 1 \frac{1}{2} = 3000 \text{ sq ft for 150% system}$
 can split to two 75% systems and alternate dosing

600 L.F. = 10 Trench (50 ft long each)
 center feed 5 ft spacing at center manifold
 10 Tr x 7' spacing / Tr = 70' wide x 60 ft long
 = 4200 sq ft of Area Needed which exceeds Min Basal Area Needs.

Min Dose of the design flow = $\frac{450}{6} = 75 \text{ gpd}$
 out vol force Main + Manifold + 5 vol deturb
 $\text{Pipe } 4.5 \text{ LF/Tr} \times 10 = 45 \text{ LF of pipe}$
 $@ 15 \text{ gal/min } 40 = 10.6 \text{ gal/100 LF} \times 45$
 $= 47.7 \text{ gal}$
 $\times 1.5 = 71.55 \text{ gal}$
 $\frac{71.55 \text{ gal}}{38.4} = 1.86$
 $\text{val manifold split call by 25'}$
 $\times 75 = 100 \text{ LF} = 100 \text{ ft}$
 $\times 3 \text{\" dia } 38.4 \text{ gal/100 ft}$
 $= 38.4$

for 50 ft long Trenchs use 1 1/2" diam perf pipe
 for 25 ft long manifold use 1" diam perf pipe
 for 36 long Trenchs 1 1/2" dia pipe

set dose to system @ flow = 277 gal/dose
 140 gal/dose
 OR
 1/2 system

P5102088 (7379 Brown Bridge Rd - F. Kulla Property)

Concerns about this design

9-11 Trenches (6/1/99)
work on this table to distance & must have a little extra (this)

assumes level piping, need to make if tables will be diff elevations (certainty extra!)

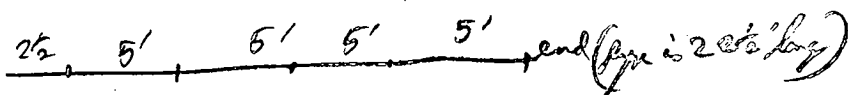
For site 2 can use 2 ft gravel fill = 4 sqft/trench

$$\frac{450}{.45} = \frac{1000 \text{ ft}}{4 \text{ sqft}} = 250 \text{ LF} = 10 \times 25' \text{ lin ft piping } 23 \text{ LF or less}$$

can use 1" dia pipe

(Piping note)

$$25' \times 1" \text{ sch 40} = 4.5 \text{ gal/100} \times 2.5 = 11.25 \text{ gal} \times 5 = 56.25 \text{ gal}$$



$$+ 17.4 \text{ gal in } 5' \times 1' \text{ trench}$$

$$\underline{73.65}$$

main 5 perf / 25' long trench (ie. 5' spacing/perf)

@ 1.04 gph

$$\frac{5 \text{ perf}}{5.20 \text{ gal per Trench}} \times 10 \text{ Trench} = 52 \text{ gal per min dose}$$

52 gal per min dose

Volume in Trenches

$$2' \text{ deep} \times 1' \text{ wide} \times (.45) = .9 \text{ cu ft CSA void}$$

$$\times 25 \text{ ft Trench}$$

$$= \frac{22.5 \text{ cu ft}}{10 \text{ TR}}$$

$$22.5 \text{ cu ft voids in } 10 \text{ TR}$$

$$\div 2 = 11.25 \text{ cu ft void/dose used}$$

(as 75 gal dose is OK)

7349 Brown Bridge Rd

SOIL DESCRIPTION

NAME Fritz Kalla Property COUNTY Howard FILE NO P510208B
 SOIL MAP UNIT Eltone in Pssio - Soil Does Not MAP SYMBO. Ektc : c DATE 6-10-98
 GEOLOGIC MATERIAL MA (Micaceous Sphalite) ELEVATION _____ GRID NO _____ E
 NO. 2 (near house) DESCRIBED BY Ron Pintley _____ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
topsoil	0-2"	Very dark brown	—	loam				dry
	2-11	light grey yellow brown	—	Sandy loam				dry Fragile, initially crumbles fine wobbly cemented = some pressure
	11-22	light yellow brown 7.5YR 5/6	—	Sandy loam				dry, dry, dry wobbly cemented Fragile (same as above)
	22-32	Transition						
	32-60	mostly red brown light grey mottles	M 3p	heavy sand loam				
	60-65	orange reds greys, tan	← Mix	Silm → heavy silm	massive	granular		MICACEOUS
	65-75	mostly grey	← light + dark grey + white	mic silm → ls silt				

LANDSCAPE

Position

Summit _____ Depression _____
 Shoulder _____ Upland _____
 Sideslope _____ Terrace _____
 Footslope Floodplain _____

Slope

Percent 4-6%
 Shape _____

SOIL DRAINAGE CLASS

ED _____ MWD PD _____
 WD _____ SPD _____ VPD _____

WATER TABLE

Estimated by water grey
 soil horizons @ 5 1/2 ft + deeper

LIMITING ZONE

SOIL CLASSIFICATION

6/17/98
 replace f tank is Top Sealed

SOIL DESCRIPTION

NAME 7349 Brown Bridge Rd Fritz Kulla Property COUNTY Howard FILE NO _____
 SOIL MAP UNIT Glennville MAP SYMBOL BaBz DATE 6.10.98
 GEOLOGIC MATERIAL _____ ELEVATION _____ GRID NO _____ E
 NO. 1 DESCRIBED BY Ros Pinkley _____ N

Horizon	Depth in.	Color		Texture	Structure		% Rock Fragments	Notes (Moisture, Density, Biopores, Seepage)
		Matrix	Mottles		Grade	Type		
A1	0-5	yellow brown		loam, c	2m-c	granular		abundant roots
A6	5-10	yellow brown → brown		loam → silty loam	2m-c	sbk		f1f pores
	10-16	yellow brown 10yr 5/6 10yr 5/8	C1f 10YR5/6	CL	1f-m	Sbk		
	16-24	yellow, brown tan 7.5YR 5/8 10yr 6/3/6/2	C-m 2d C/d	(1) grcolm		Sbk		granular course in pockets wet moderately sticky plastic where gravel absent
	24-36	yellow/brown tan 7.5YR 5/8 7.5YR 7/4/6/1 greys	m-3p f1f blk	hsil-sil streaks		sbk sbk		wet moderately sticky and plastic 1-1/2" ribbon heavy silt loam → silty clm
	36-65	grey 7.5YR 7/1 → 8/1 white, pale cream 7/6YR	62d f-c	Silty → loamy silt greasy	massive saprolite	—		
	65-75	darker red brown	fine sandy loam, very micaceous	v. micaceous → SL	"			Very micaceous sandy loam
	75-85	darker greys 10YR 6/2 → 5/1		vertical -SL	"			Very micaceous sandy loam Water seepage at 7.0'

LANDSCAPE

Position

Summit _____
 Shoulder _____
 Sideslope _____
 Footslope _____
 Depression _____
 Upland _____
 Terrace _____
 Floodplain _____

Slope

Percent _____
 Shape _____

SOIL DRAINAGE CLASS

ED _____ MWD _____ PD _____
 WD _____ S'D _____ V'D _____

WATER TABLE

possible water
 table to 3.0'
 mottles at 24" (2')

LIMITING ZONE

SOIL CLASSIFICATION

perc
Test Hole 1
@ 1.0' 2:27₃₀ → 2:55

2:55 → 3:55 60 minutes

perc
Test Hole 2
@ 3.5' 2:30₂₀ → 3:38

3:38 → ^{puller @} 4:52 (3/4 Fall) 3/4" in 74 min ± 100 psi rate

well cased in 3' concrete pit
HO-81-1679

Fax # 410 489-4705
Fax letter prepared by end of to Ken Hoffeld
Day

110 17 12-1

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY

ELLICOTT CITY

DISTRICT 8

DATE 4/2/74

INDEXED

4/25/74

File filed
A.C.D.

[Handwritten signature]

Fritz Kulla

IS PERMITTED TO INSTALL OR ALTER

ADDRESS 7349 Brown Bridge Road, Fulton, Md. PHONE 286-1739

A SEWAGE DISPOSAL SYSTEM LOCATED AT _____

SUBDIVISION _____ ROAD 7349 Brown Bridge Rd. LOT _____

PROPERTY OWNER Fritz Kulla

ADDRESS _____

SPECIFICATIONS

DRAIN FIELD _____ DEPTH _____ FEET, BOTTOM AREA _____ SQ. FT.

SEEPAGE PITS _____ ABSORBENT SIDE-WALL AREA _____ SQ. FT.

SEPTIC TANK CAPACITY _____ GALLONS

FOR GARBAGE GRINDER, INCREASE DISPOSAL AREA 22% & TANK CAPACITY 50%

OTHER REPAIR - Recommend 90 ft. trench across yard, 1 1/4 ft. gravel under pipe, perforated pipe in trench, connection to old drain field solid pipe. Trench 3 to 4 ft. deep stay above water table.

NOTE: CALL FOR INSPECTION WHEN TRENCH IS DUG OUT BEFORE ANY GRAVEL IS INSTALLED.

PLANS APPROVED BY C. B. Streaker DATE 4/2/74

FILL SEPTIC TANK AND DISTRIBUTION BOX WITH WATER BEFORE CALLING FOR AN INSPECTION. COVER NO WORK UNTIL INSPECTED AND APPROVED.

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

19740

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

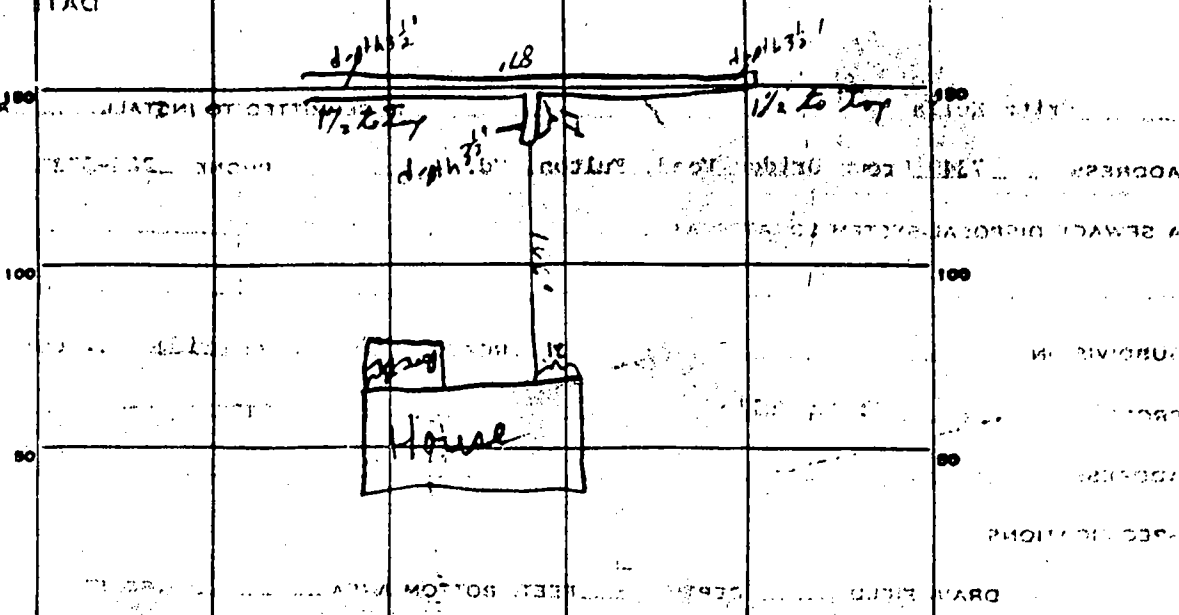
ELICOTT CITY

HOWARD COUNTY

DISTRICT

INDEXED

DATE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

PERMIT CARD

Brown Bridge Rd.

SEPTIC TANK, LEVEL

NA

CLEANOUTS

NA

DISTRIBUTION BOX, LEVEL

NA

TILE FIELD, DEPTH

3 1/2

FT. TRENCH WIDTH

21

GRAVEL DEPTH

2'

IN. TOTAL LENGTH

104

NUMBER OF TRENCHES

1

TOTAL BOTTOM AREA

SEEPAGE PITS, INSIDE DIAMETER

20"

FT. DEPTH BELOW INLET

1'

ABSORBENT AREA

208⁺

SQ. FT.

1 side counted

REMARKS

4/24/74 trench dug depth 20' and trench covered

4/25/74 Checked gravel in

CBS

DATE SYSTEM APPROVED

4/25/74

INSPECTOR

C. Stueker

per spec

5307

PERMIT NO. (SEE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 30 DAYS AFTER WELL IS COMPLETED

COUNTY NUMBER A

PERMIT NO. W

DATE RECEIVED

DATE WELL COMPLETED 09/23/88

DEPTH OF WELL 400 (TO NEAREST FOOT)

FROM PERMIT TO DRILL WELL NO-511-11679

OWNER KULLA STREET OR RFD 7577 BROWN BRIDGE RD TOWN HIGHLAND SUBDIVISION MAP 40 P.104 SECTION 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 handwritten notes like 'SAND' and 'GRAVEL'.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) NO (N) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 11 NO. OF POUNDS 1634 GALLONS OF WATER 46 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 0 ft

CASING RECORD casing types insert appropriate code below ST CO STEEL CONCRETE PL OT 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 ST BR HO STEEL BRASS BRONZE OPEN HOLE PL OT PLASTIC OTHER

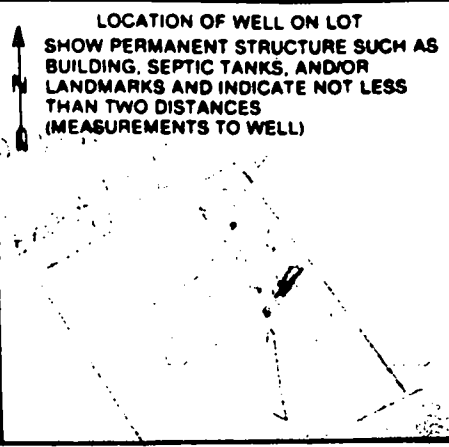
DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

PUMPING TEST

HOURS PUMPED (nearest hour) 2 PUMPING RATE (gal. per min. to nearest gal.) 4 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED

WHILLER WILL INSTALL PUMP YES (NO) (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS EXCEPT HOME USE TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: 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)



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 COMA 7 10 17 13 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS IDENT. NO. DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

Health



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer
December 11, 1989

Reply to:
Charles Streaker, Sanitarian
461-9933 or 461-9934

Mr. Fritz Kulla
7349 Brown Bridge Road
Fulton, Maryland 20759

Re: 7349 Brown Bridge Road
Well Permit No. HO-81-1674

Dear Mr. Kulla:

This is to advise you that the septic system was installed, inspected and approved on April 25, 1974.

The water sample recently submitted for testing was free of coliform and fecal coliform bacteria at the time of sampling and bacteriologically safe for drinking.

FINAL CERTIFICATION OF POTABILITY

This certifies that all sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under permit(s) HO-81-1674.

November 28, 1989
Date of Final Sampling

December 11, 1989
Date of Acceptance

Charles Streaker
Charles Streaker, Sanitarian
Water and Sewerage Program

Water Sample Dates:
June 21, 1989
November 28, 1989

CS:cm

Bureau of Environmental Health
3525 Ellicott Mills Drive Ellicott City, Maryland 21043-4544
Director 461-9956 Water and Sewerage, Permits 461-9933 Community Environmental Health 461-9944
Technical Services 461-9955