

9-16-98
10:00 & later

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 510656-C

A 31179

DISTRICT 5th

DATE 9-1-98

DATE SYSTEM APPROVED 9/16/98

INSPECTOR DKS

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

05-408687

INDEXED

Fyock Septic Service, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS P.O. Box 89 Triadelphia Road Glenelg, MD 21737 PHONE 410-988-9270

SUBDIVISION Chapel Chase LOT 26 ROAD 12706 Chapel Chase Drive

PROPERTY OWNER Robert & Tricia Naylor

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 180

TRENCHES - Trench to be 2 feet wide. Inlet 3 1/2 feet below original grade. Bottom maximum depth 7 1/2 feet below original grade. Effective area begins at 3 1/2 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - ~~Starting from the right front lot corner, place the distribution box 125 feet down the right lot line and 90 feet off this same lot line. Run trenches on contour in both directions.~~

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 8/7/98 DKS

9-14-98 Install two 90' trenches, placing DB on top left corner of SDA All

PLANS APPROVED BY Mark Rifkin/Amy McMillen DATE 08/16/98

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

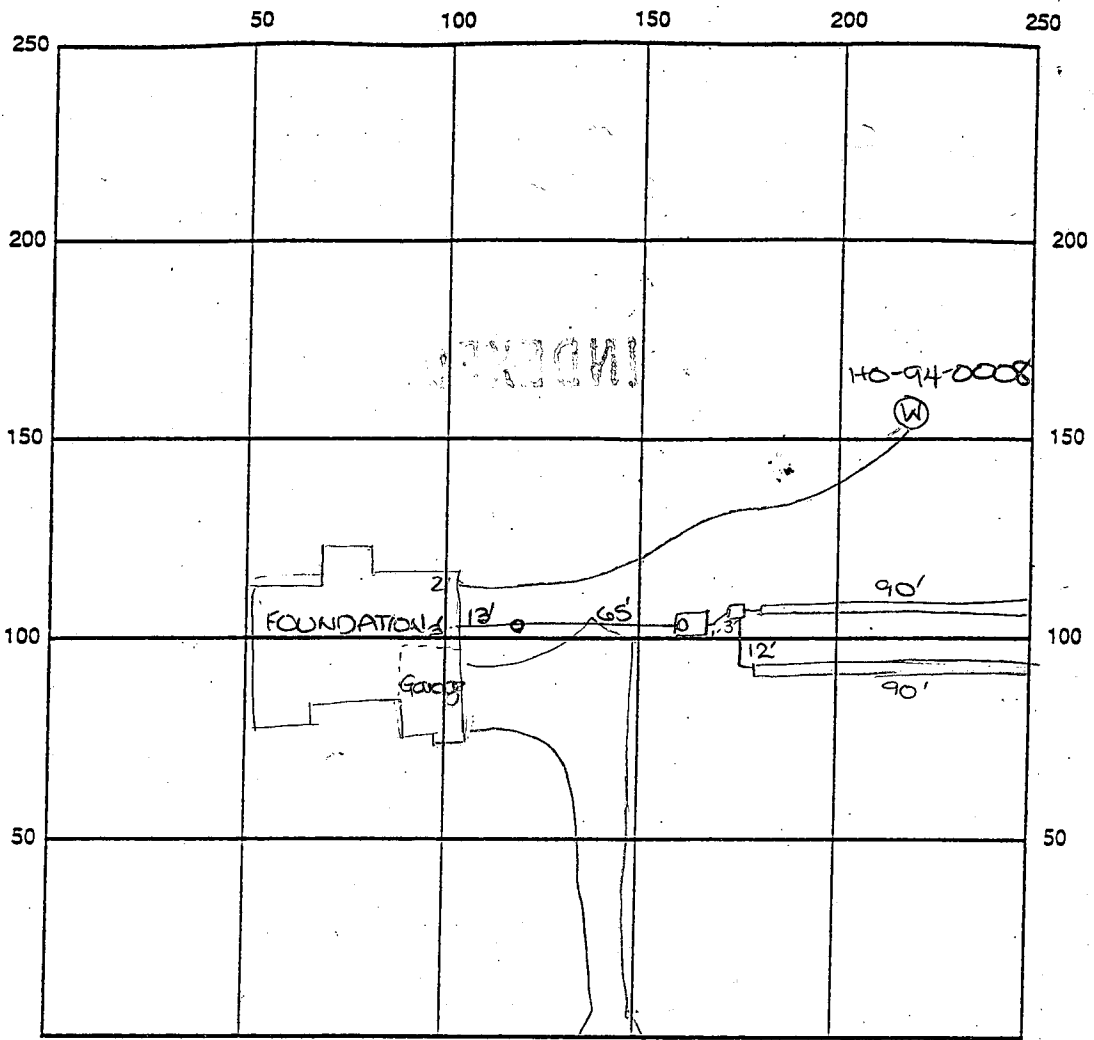
PERMIT VOID AFTER TWO YEARS

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**

A 31179



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Chapel Chase Drive

SEPTIC TANK LEVEL OK - 1250 gal CLEANOUTS one in line, one on s.t.

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 7.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 180 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

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

ABSORBENT AREA — SQ. FT.

REMARKS: 9/16/98 FINAL INSP - OK to cover septic system as completed - sufficient materials at site. DKS

9/16/98 WPI - well line, P.A. 42" below grade; well casing 2' above grade; 2 pc. well cap installed; PVC conduit pipe OK to cover DS

DATE SYSTEM APPROVED 9/16/98 INSPECTOR Douglas K. [Signature]

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 31179
P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P.O. BOX 476 ELLICOTT MARYLAND 21043
TELEPHONE 992-2330

DISTRICT 5th Elec. Dist.

DATE 2-17-81

TO THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST IN ORDER TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM

PROPERTY OWNER Ms. Corraine D. Hebb/e/o Edward Kasemeyer Robert & Tricia Naylor

ADDRESS 9051 Baltimore National Pike PHONE (301) 465-7474
Ellicott City, Maryland, 21043

PROPERTY LOCATION _____

SUBDIVISION Chapel Chase LOT NO. 26 ~~A-11~~ ~~A-14~~ } PROPOSED # 12
AS OF 4/16/81 LETTER

ROAD AND DESCRIPTION Linden Church Road Off of Maryland Route 32

(12706 CHAPEL CHASE DRIVE)

SIZE OF LOT 3.08 Acres TYPE BLDG. Single-Family Detached

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.

SIGNATURE OF APPLICANT Edward Kasemeyer **PERMIT SIGNED AND RETURNED 8-6-81**
Serial # 210 113380
SFD- 4121m

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

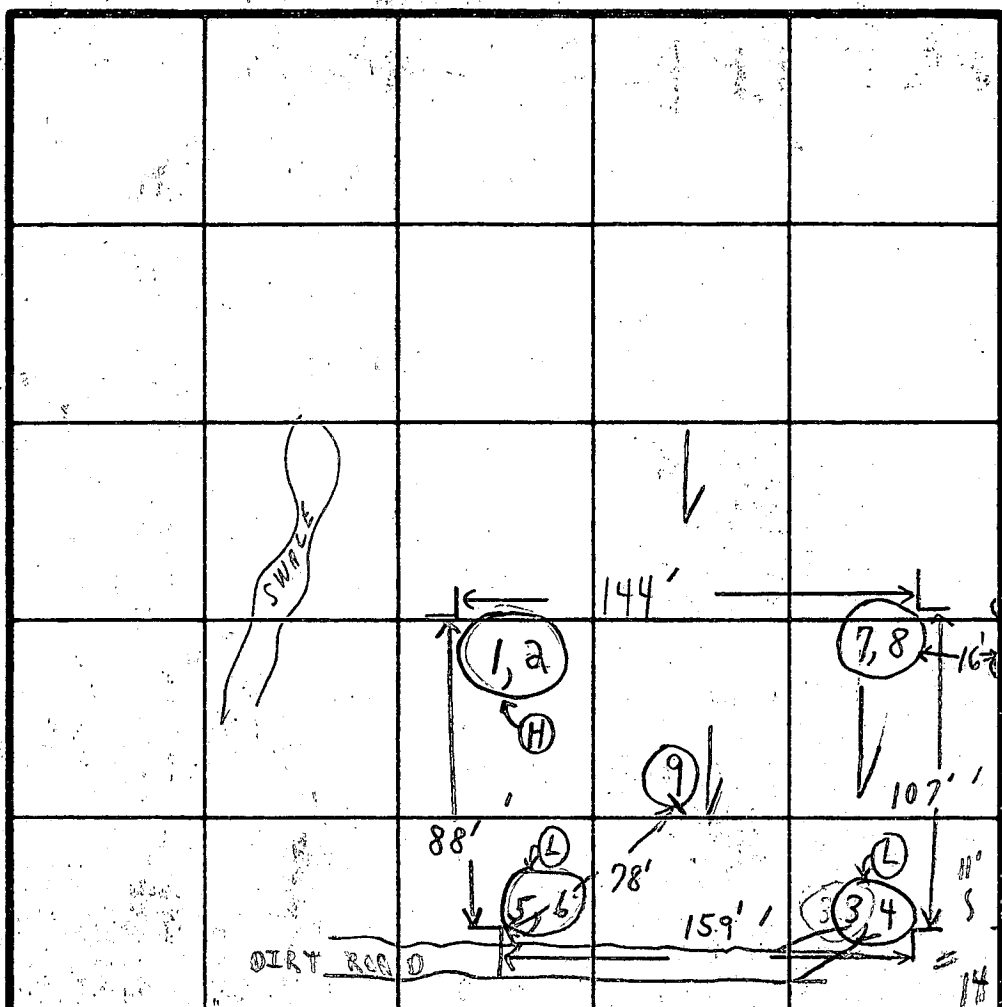
REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

A-12
A-14

A 3179

SOIL PROFILE
SEE EACH HOLE BELOW



FIELD SHEET

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE
PROPOSED LINDEN CHURCH RD EXTENDED

SOIL PROFILE	DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1' DROP		TIME
				START	STOP	START	STOP	
1' - 3" CLAY	3/9/81	1	3 1/2'	11:52	11:53	11:53	11:54	1 min
3" to 9 1/2' LOAM (TAN)		(H) 2	9 1/2'	1:43	1:45	1:45	1:47	2 min
1' - 4' CLAY		3	4'	11:37	11:39	11:39	11:42	3 min
4' - LOAM (14 1/2')		(L) 4	9'	11:35	11:37	11:37	11:42	5 min
1' - 4' CLAY		(L) 5	4'	11:46	11:48	11:48	11:51	3 min
4' - 9 1/2' LOAM (SANDY TO YELLOW)		6	9 1/2'	11:47	11:49	11:49	11:53	4 min
1' - 4' CLAY		(H) 7	4'	1:36	1:50	1:50	2:13	23 min
4' - 14' LOAM (TAN)		8	9 1/2'	1:34	1:36	1:36	1:39	3 min
1' - 3" CLAY (3' - 13 1/2' LOAM)		9	13 1/2'	VISUAL			8	44

Incl 3 1/2
6 min

REMARKS: WOODED LOT PERCS STAKED HOLD FOR (1) CERTIFIED HOLES (2) DISCUSSION

TESTED BY: C.B. [Signature]

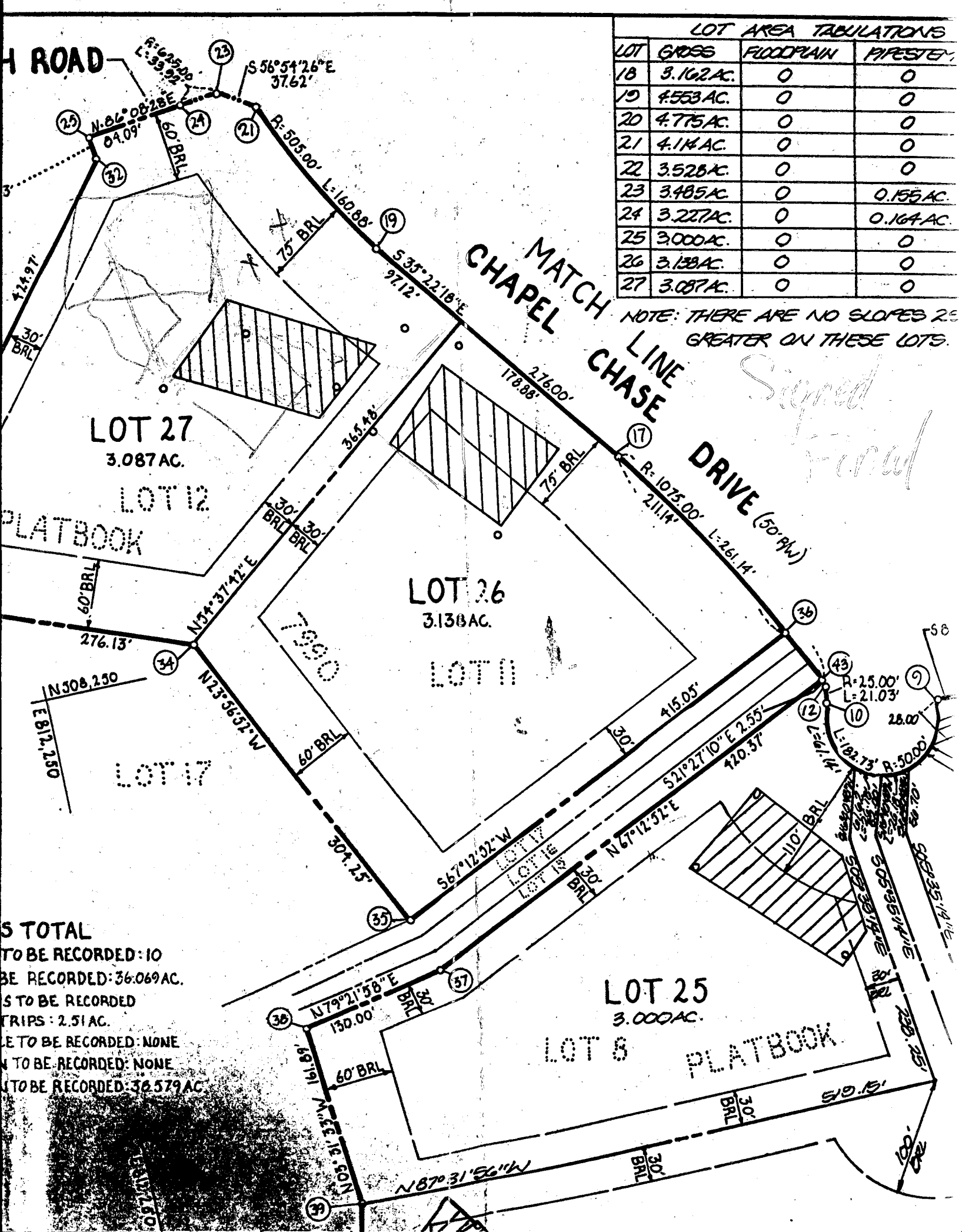
ALSO PRESENT: J.A.D. BRUCE OF SOUTH CARROLL

H ROAD

LOT AREA TABULATIONS			
LOT	GROSS	FLOODPLAIN	PIPESTEY
18	3.162 AC.	0	0
19	4.553 AC.	0	0
20	4.775 AC.	0	0
21	4.114 AC.	0	0
22	3.528 AC.	0	0
23	3.485 AC.	0	0.155 AC.
24	3.227 AC.	0	0.164 AC.
25	3.000 AC.	0	0
26	3.138 AC.	0	0
27	3.087 AC.	0	0

NOTE: THERE ARE NO SLOPES 2% GREATER ON THESE LOTS.

*Signed
Final*



LOT 27
3.087 AC.

LOT 26
3.138 AC.

LOT 25
3.000 AC.

S TOTAL
TO BE RECORDED: 10
BE RECORDED: 36.069 AC.
S TO BE RECORDED
TRIPS: 2.51 AC.
E TO BE RECORDED: NONE
N TO BE RECORDED: NONE
TO BE RECORDED: 36.579 AC

LOT 8
PLATBOOK

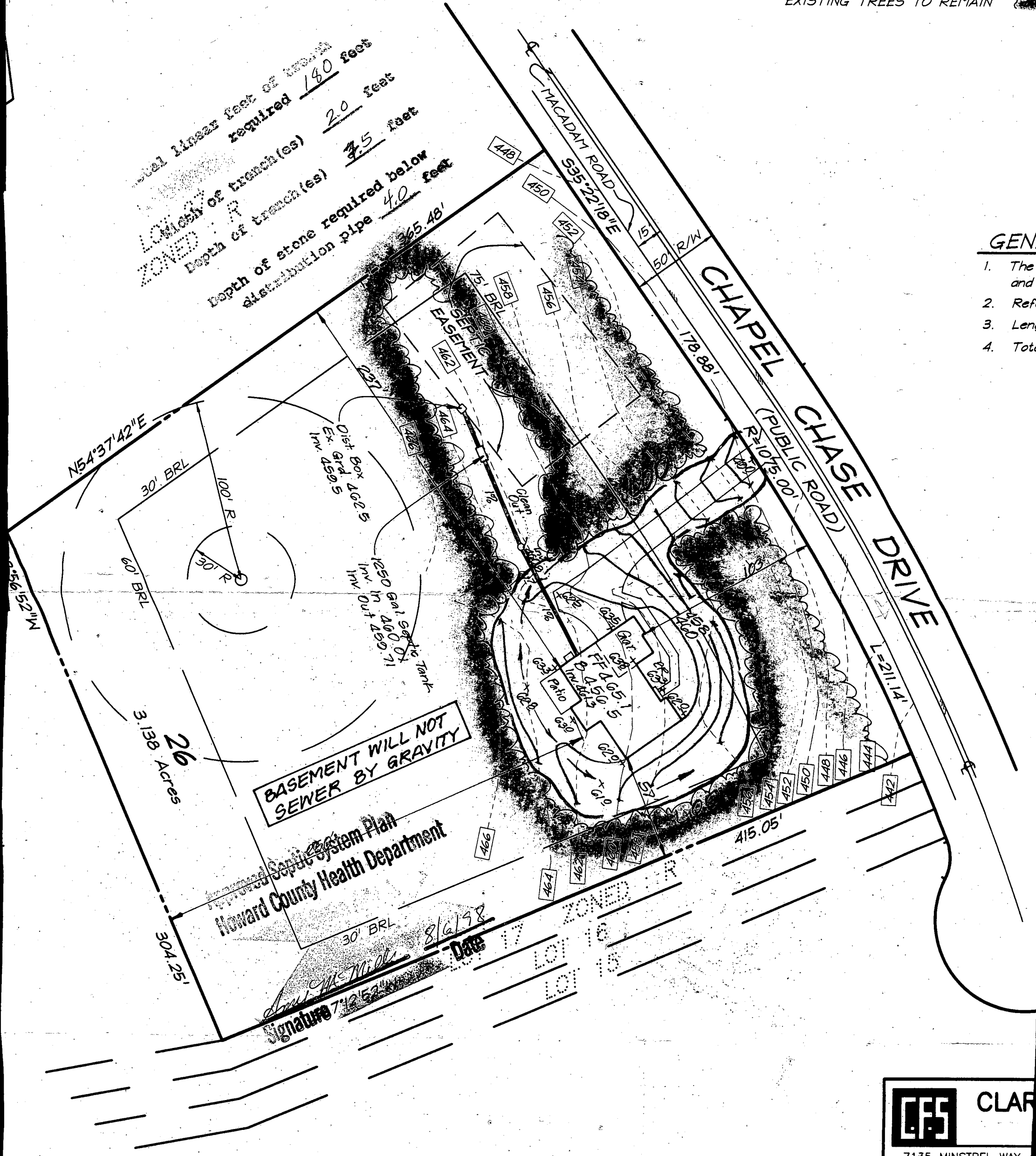
LEGEND

- CONTOUR INTERVAL 2 F
- EXISTING CONTOUR 348
- PROPOSED CONTOUR 348
- DIRECTION OF DRAINAGE
- WALK OUT BASEMENT
- SPOT ELEVATION + 7
- LIMIT OF DISTURBED AREA
- EXISTING TREES TO REMAIN

total linear feet of trench required 140 feet
 Depth of trench(es) 2.0 feet
 Depth of trench(es) 3.5 feet
 Depth of stone required below distribution pipe 4.0 feet

GENERAL

1. The existing and proposed
2. Refer to
3. Length
4. Total



BASEMENT WILL NOT SEWER BY GRAVITY

Approved Septic System Plan
 Howard County Health Department

Signature *Paul W. Mills* 7/12/52
 Date 8/6/98



DESIGNED	JME
DRAWN	PS
CHECKED	
DATE	FOR

C1 8900

SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

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

COUNTY NUMBER A 31179

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

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE RECEIVED grid

DATE WELL COMPLETED grid: 03/18/77

Depth of Well grid: 360

PERMIT NO. grid: HO-77-0008

OWNER Otwell Kenneth last name first name STREET OR RFD Chapel Chase Dr TOWN Clarksville SUBDIVISION CHAPEL CHASE SECTION LOT 26

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 entries: SAND, Gony mica rock, 0 48, 48 360.

GROUTING RECORD WELL HAS BEEN GROUTED (yes Y, no N) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO. OF BAGS 19 NO. OF POUNDS 1750 GALLONS OF WATER 114 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 48 ft.

CASING RECORD casing types insert appropriate code below ST CO PL OT STEEL CONCRETE PLASTIC OTHER

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 52

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

SCREEN RECORD screen type or open hole insert appropriate code below ST BR HO PL OT STEEL BRASS BRONZE PLASTIC OPEN HOLE OTHER

Table for SCREEN RECORD with columns for DEPTH (nearest ft.) and rows for EACH SCREEN.

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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS IDENT. NO. 24

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

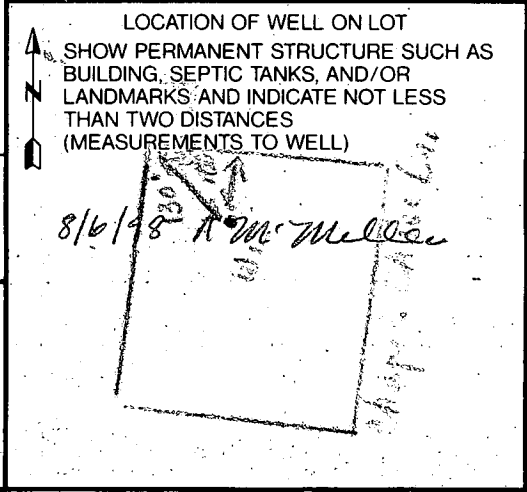
OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q 70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 2 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 52 WHEN PUMPING 267 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 DRILLER WILL INSTALL PUMP YES 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)



FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 94-0008
 Location of property (road) Chapel Chase Dr.
 Subdivision Chapel Chase Lot 26 Block Plat Sec.
 Well Driller Joseph Mayne Owner Kenneth Otwell

Depth of well 360'
 Distance of measuring point (M.P.) above ground 2'
 Static water level (S.W.L.) below M.P. 52'

I. High rate pumping -- reservoir drawdown

Time pump started 7:00 Pumping rate 159 gpm
 Total time 30 min. to reach pumping water level 269 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill #1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:15	180'	4 sec.		15 gpm
7:30	269	4		15
7:45	266	29		2
8:00	266	29		2
8:15	266	29		2
8:30	266	29		2
8:45	267	29		2
9:00	267	29		2
9:15	267	29		2
9:30	267	29		2
9:45	267	29		2
10:00	266	29		2
10:15	266	29		2
10:30	266	29		2
10:45	266	29		2
11:00	266	29		2
11:15	266	29		2
11:30	266	29		2
11:45	266	29		2
12:00	266	29		2
12:15	266	29		2
12:30	266	29		2
12:45	266	29		2
1:00	266	29		2
1:15	266	29		2
1:30	266	29		2

LINDEN CHURCH ROAD

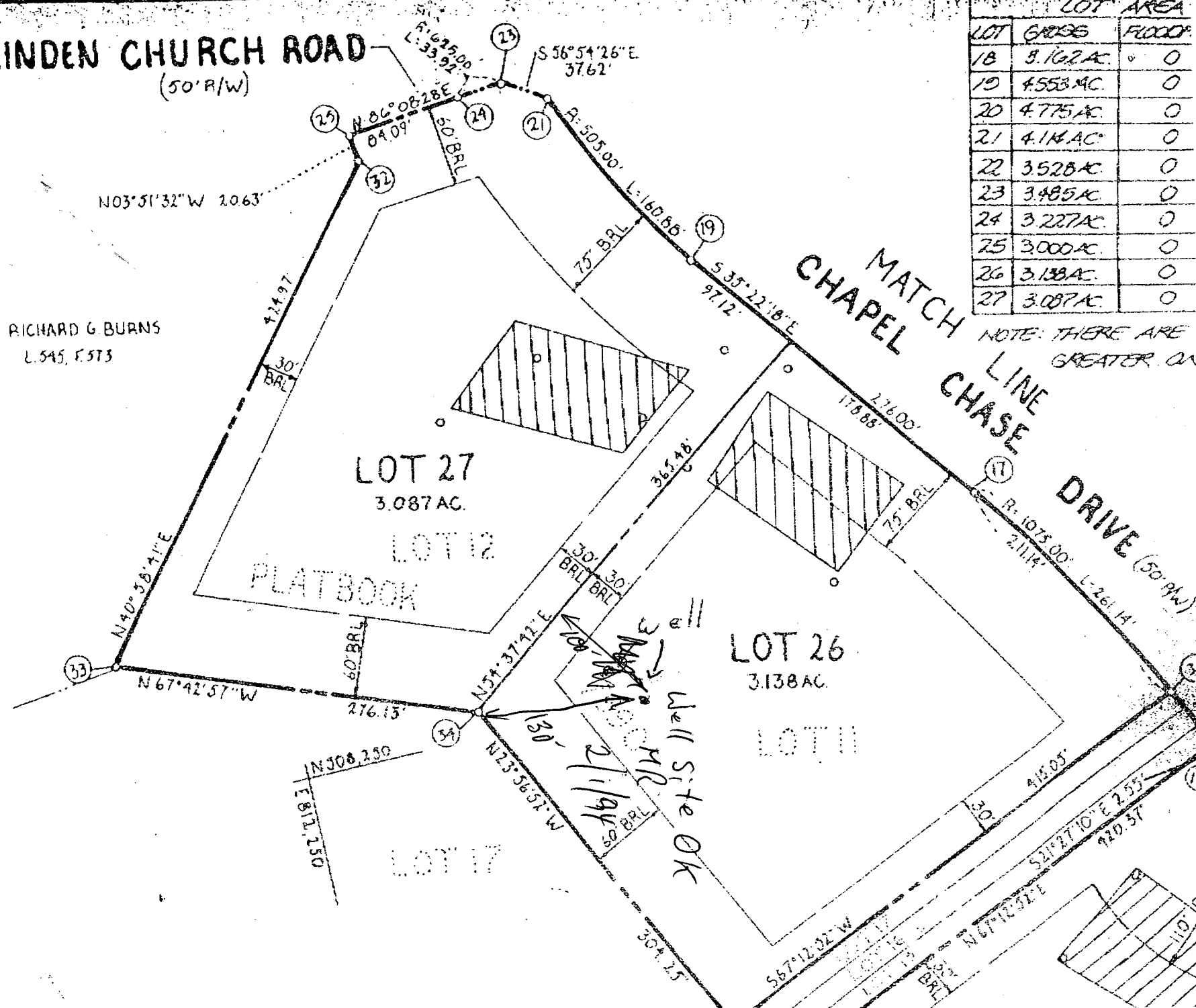
(50' R/W)

LOT AREA		
LOT	GROSS	FLOODED
18	5.162 AC.	0
19	4.553 AC.	0
20	4.775 AC.	0
21	4.114 AC.	0
22	3.528 AC.	0
23	3.485 AC.	0
24	3.227 AC.	0
25	3.000 AC.	0
26	3.138 AC.	0
27	3.087 AC.	0

NOTE: THERE ARE GREATER ON

MATCH LINE CHASE DRIVE

(50' R/W)



RICHARD G BURNS
L. 545, E. 573

Well Site OK

Kenneth Atwell

301-752-3204

B 1 **7352** SEQUENCE NO. (DP USE ONLY)
 THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS

STATE OF MARYLAND
 APPLICATION FOR PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
HO-94-0008
 fill in this form completely

Date Received (APA) **011994**
OWNER INFORMATION
 CFWEAK KENNETH
 805 SOUTH CHARLES ST
 BALTIMORE MD 21230

B 3 LOCATION OF WELL
 HOWARD CHASE
 8 COUNTY 21
 CHAPEL CHASE
 23 SUBDIVISION 42
 SECTION 2 LOT 26
 44 46 48 50
 CLARKSVILLE
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) 3 MI
 73 76 77 78

DRILLER INFORMATION
 Joseph L. Mayne 24
 Driller's Name 77 License No. 80
 Joseph L. Mayne Well Drilling
 Firm Name
 5512 Ridge Rd. Mt. Airy, Md. 21771
 Address
 Joseph L. Mayne 1/19/94
 Signature Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)
 Chapel Chase Drive
 11 NEAR WHAT ROAD 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W EAST E
 SOUTH S
 34 27.5 37
 DISTANCE FROM ROAD
 ENTER FT or MI 17
 38 39

B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.) 5
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 520
 8 12 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER
 HEALTH DEPARTMENT APPROVAL
 Howard A31179
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE DATE ISSUED 020194 Mark E. Reffin 2/1/95
 CO SIGNATURE EXP. DATE
 NORTH GRID 508000 EAST GRID 0813000
 50 55 57 63

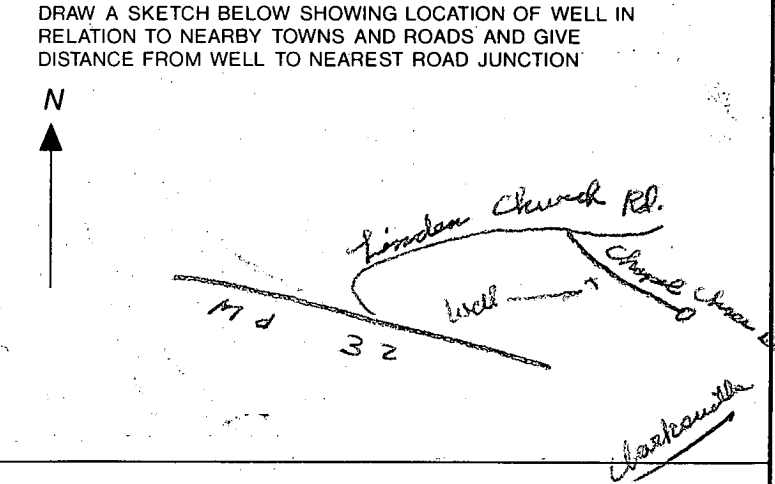
APPROXIMATE DEPTH OF WELL 300 FEET
 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. WELL
 2.
 3.
 WRITE THE BOX NUMBER FROM THE MAP HERE
 E 8183
 N 5088
 000 000
 2/18/94 9:30
 NO LWS

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
 THIS WELL WILL DEEPEM AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52



Not to be filled in by driller (OEP USE ONLY)
 APPROP. PERMIT NUMBER 54 GAP 63
 FORCE MR WRITE INITIALS IN BOX PERMIT No. HO-94-0008
 167 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

HOWARD COUNTY HEALTH DEPARTMENT
Bureau of Environmental Health
3825-B Ellicott Mills Drive
Ellicott City, MD 21043
461-0933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation Replacement
Receipt # _____ Date _____
Name of Installer Willoughby Plumb Svc Telephone 410-781-7051
License Number #3992
Certified Well Pump Installer _____ Well Driller _____ Registered Plumber
Name of Property Owner Ruth & Nancy Telephone 410-855-5757
Subdivision Chapel Chase Lot # 21e Well Tag # HC-94-0008
Site Address 12706 Chapel Chase
Clarksville, Md 21029

Pump
1. Type
a. Deep well jet _____
b. Shallow well/jet _____
c. Submersible _____
2. Make Jacuzzi
3. Model # _____
4. Capacity _____ GPM
5. Pump exceeds well capacity Yes _____ No
6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors Cable guards Other None

Tank
1. Capacity 10 gal
2. Pressure relief valve? Yes
Piping
1. Type Cast Iron
2. Size 1"
3. NSF and/or BOCA Code approved Yes
4. Depth of supply line 4 ft.
Well data
1. Depth 360 ft.
2. Yield 2 GPM
3. Static water level 22 ft.
4. Will water supply be disinfected by installer? NO

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.
Signature of Applicant: Chris Willoughby, Pres
Date: 12/8/98

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.