

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

X8019913X 410-313-2640

INDEXED

04-346084

P 59831

A 38228

DISTRICT 4th

DATE 2-18-98

DATE SYSTEM APPROVED 2/26/98

INSPECTOR KM

Van Sant Plumbing & Heating

IS PERMITTED TO INSTALL ☒ ALTER

ADDRESS 3 N. Main Street, Mt Airy, Maryland 21771

PHONE 410-682-6726

SUBDIVISION Femiano Estates LOT 6 ROAD 14646 Triadelphia Road

PROPERTY OWNER Vail & Patricia Kaufman

ADDRESS

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

240 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 275

BLDG. PERMIT SKINNED
AND RETURNED 2-2-98
B00133865
FINISH BASEMENT w/BATH

TRENCHES - Trench to be 2 feet wide. Inlet 4½ feet below original grade. Bottom maximum depth 8 feet below original grade. Effective area begins at 4½ feet below original grade. 3½ feet of stone below distribution pipe.

LOCATION - Beginning from the right front lot corner, place the distribution box 180 feet down the right (433.00') line and 170 feet off the right line as seen when facing property from Triadelphia Road. Run trenches along 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 to install all trenches toward Triadelphia Rd to avoid Poll area. Dpt 2/20/98
OK KM 10/24/97

PLANS APPROVED BY Bert Nixon/Kim Maiste/Amy McMillen

REVISED DATE 10/21/97

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

A 38228

APPLICATION

PERCOLATION TESTING

A 38228

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
P.O. BOX 476 ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 461-9933

DISTRICT _____

DATE 12/21/86

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 ~~Signature Homes, Inc.~~ Vail & Patricia Kaufman

ADDRESS _____ PHONE _____

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Friman Property LOT NO. final lot 6
14646 adjusted lot 2

ROAD AND DESCRIPTION 14650 TRIADOLPHIA Rd.

BLDG. PERMIT SIGNED

AND RETURNED 10-17-77

Serial # 200108126

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 Sidney Abel FOR 6-14-88 Duplunch DATE 6-14-88

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING _____

BLDG. PERMIT SIGNED

AND RETURNED 6-14-88

BP19283 SAC

THIS IS NOT A PERMIT

230 P / 60 am
 INLET 4 1/2
 MAX D 8'
 T = 18 MIN

LOT 6

SOIL PROFILE

③
 brown / yellow clay 4'
 to yellow brown clay
 brown to silty
 mica
 low
 w/ few sgs.
 scattered
 rock frags

12' D

④

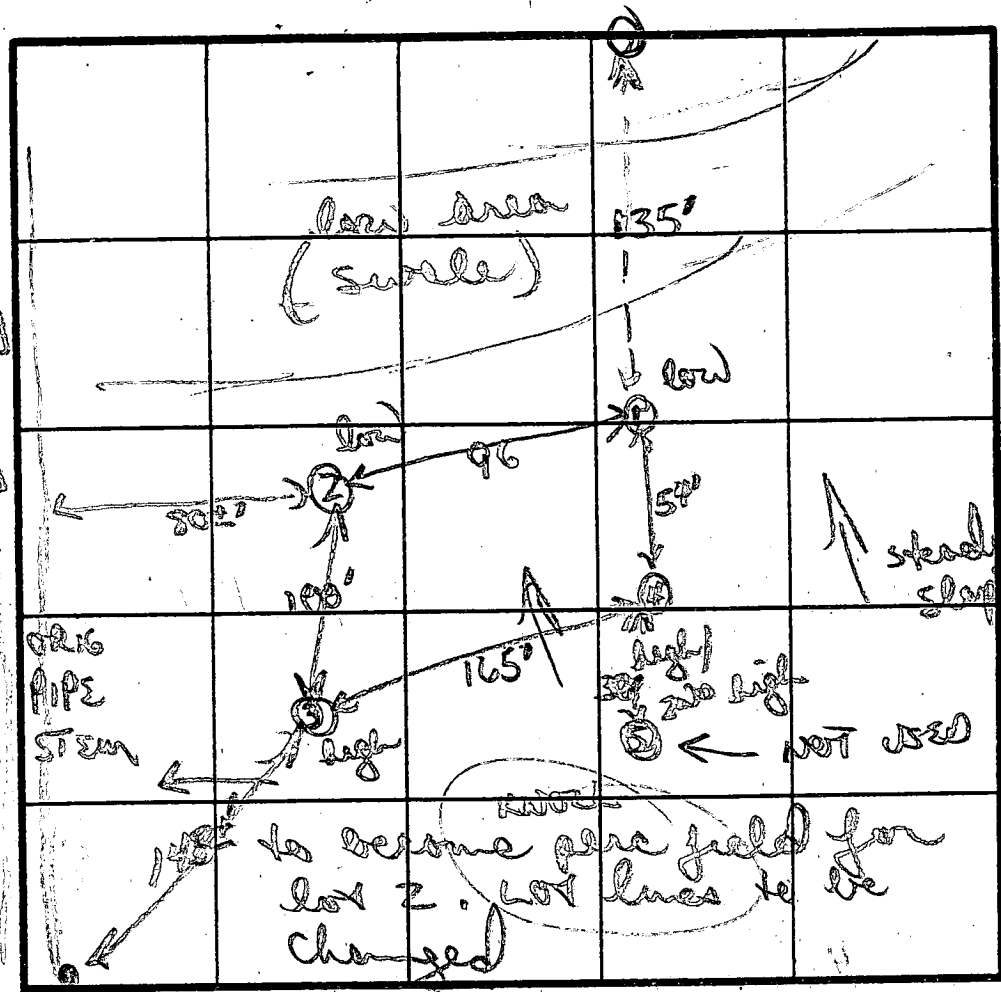
yellow / brown
 clay 3'
 layer had
 clay 4"
 brown / orange
 to silty
 low

1' D

②

orange / red
 yellow clay 4'
 to gritty / silty
 orange / brown
 low

dark brown / black
 m/s



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

TRIADLPHIA RD

③
 red / orange
 clay 4 1/2'
 changing to
 yellow / orange
 brown silty
 clay low
 to tan / 10'
 orange silty
 12' D low

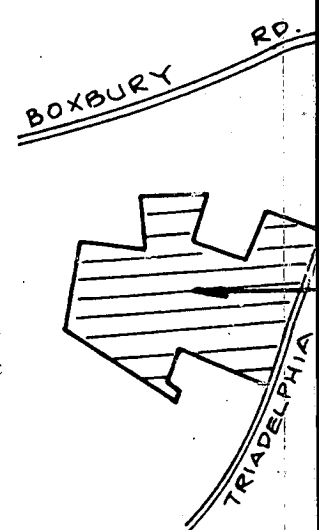
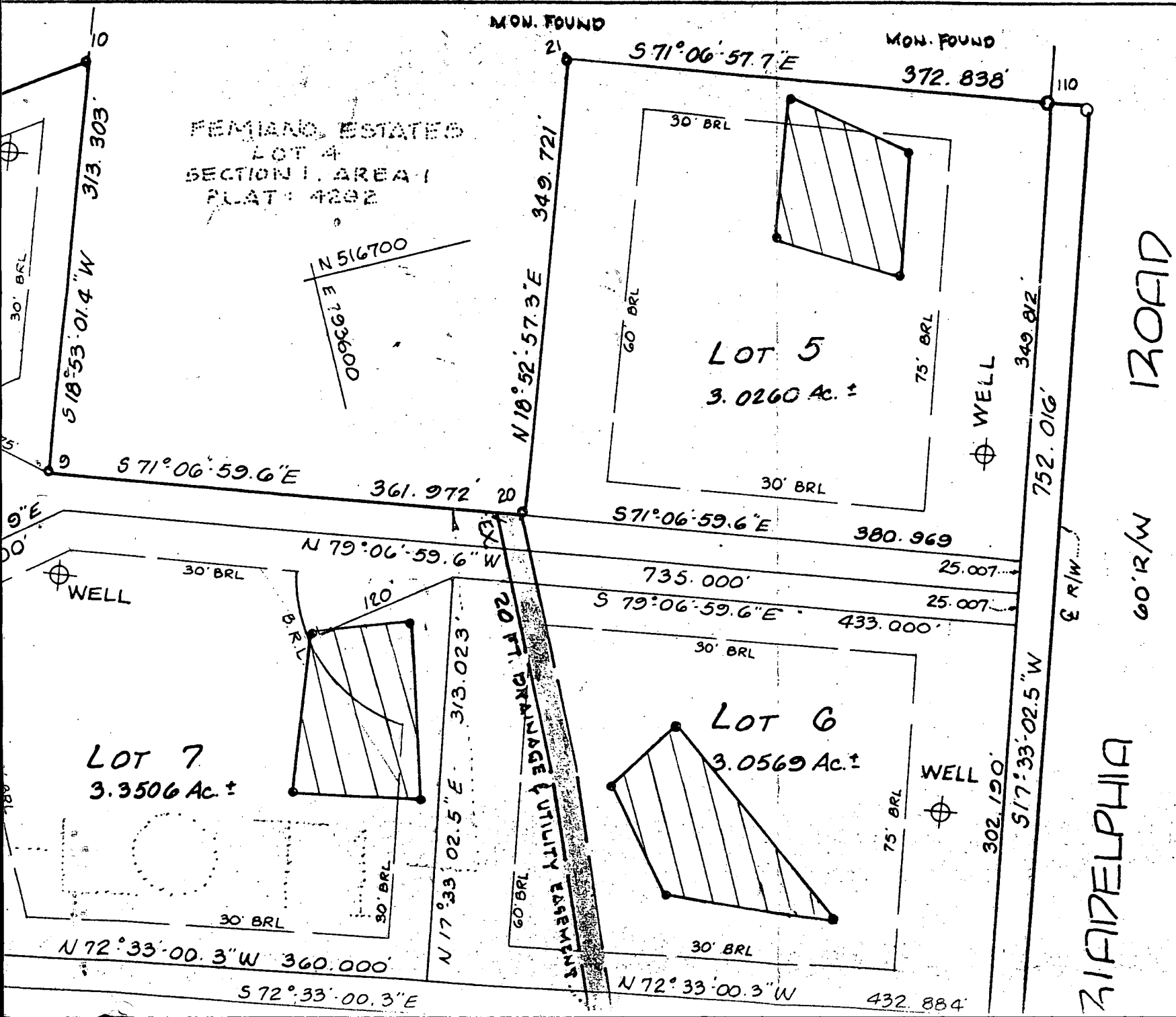
⑤

mostly red
 orange
 clay /
 clay low
 stopped
 at 6'

would do
 on deeper
 (53)

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/29/96	①	4' 5"	258	313	313	343	30 min
		7 1/2' M	250	256	255	301	6 min
		12' D	bottom - (see profile)				
	②	4 1/2' S	311	324	324	351	27 min
		11' D	bottom - (see profile)				
	③	4' S	340	405	1 1/2" stopped		
		8' M	338	346	346	405	19 min
		12' D	bottom - (see profile)				
	④	4 1/2' S	350	354	354	400	6 min
		11' D	bottom - (see profile)				

REMARKS slow shallow times, generally deficient soil improvement w/ depth
 TYPE OF SOIL red / orange clays 4", clay silty loams w/ occasional small rock frags
 TESTED BY B. N. Ryan ALSO PRESENT Dave / Rob



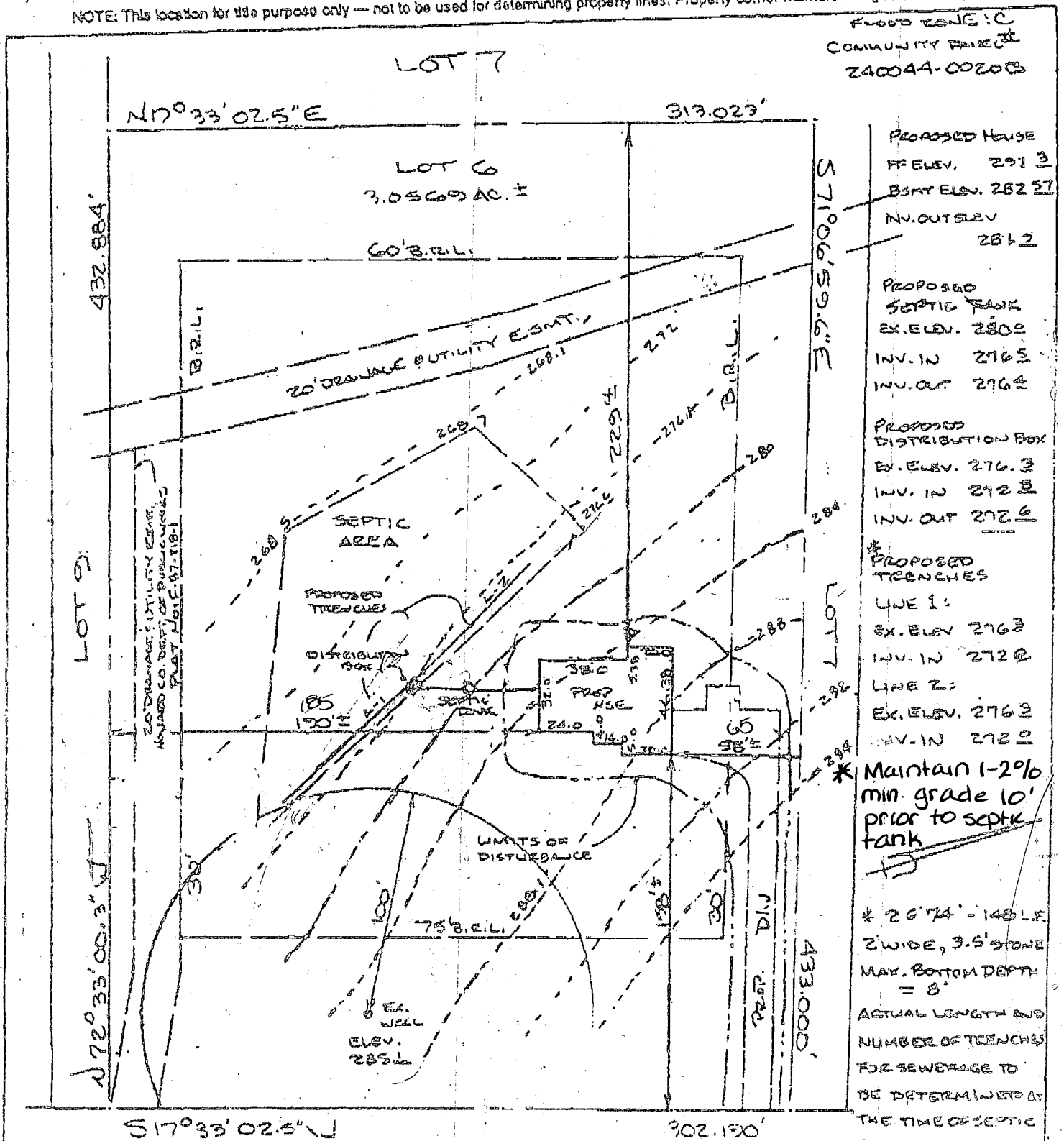
TAX MAPS 21 & 27

LOCATION
SCALE

FEMIANO
ESTATES
SEC 1 AREA 3
FINAL

CASE NO.

NOTE: This location for title purpose only — not to be used for determining property lines. Property corner Markers Not guaranteed by this location.



17,000 ± PROPOSED DISTURBANCE AREA, TO BE PROTECTED BY RILEY FENCE OR OTHER

TRIADOLPHIA ROAD
602'W

SYSTEM PERMIT ISSUANCE.

PLOT PLAN
NOT TO SCALE
FERMIANO ESTATES
SITUATED ON TRIADOLPHIA ROAD
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

PLOT PLAN 9-8-97
REVISED 10-6-97

Approved Septic System Plan
Howard County Health Department

Signature: Amy M. Mull
Date: 10/17/97

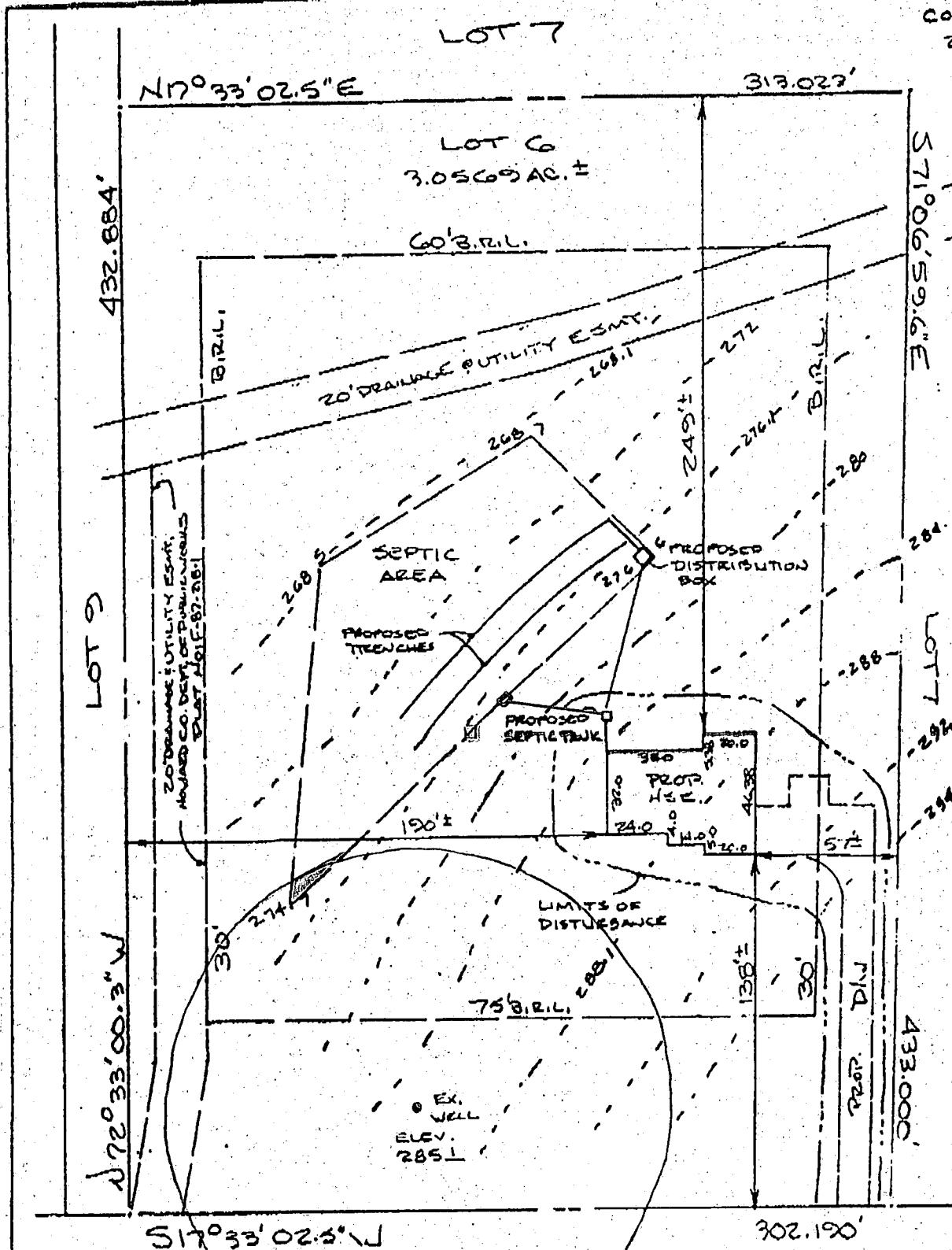
Total linear feet of trench required _____ feet
Width of trench(es) _____ feet
Depth of trench(es) _____ feet
Depth of stone required below distribution pipe _____ feet

ZENITH SURVEYS SURVEYING • PLANNING 200 BILL AVENUE • FREDERICK, MD. • 21701	
DATE OF SURVEYS	SCALE: 1" = 60'
WALL CHECK	DRAWN BY: WHY
HSE LOC	JOB NO.: 97-1049

CASE No.

NOTE: This location for title purpose only — not to be used for determining property lines. Property corner Markers Not guaranteed by this location

FLOOD ZONE C
COMMUNITY FLOOD
240044-00203



PROPOSED HOUSE
FF ELEV. 292.3
BSMT ELEV. 283.5
INV. OUT ELEV. 282.2

PROPOSED SEPTIC TANK
EX. ELEV. 282.8
INV. IN 279.4
INV. OUT 279.1

PROPOSED DISTRIBUTION BOX
EX. ELEV. 276.6
INV. IN 273.2
INV. OUT 272.2

* PROPOSED TRENCHES
LINE 1:
EX. ELEV. 275.1
INV. IN 272.3
LINE 2:
EX. ELEV. 274.2
INV. IN 270.4

* 20' 120' - 240' L
3' WIDE, 2.5' STONE
MAX. BOTTOM DEPTH
= 6'
ACTUAL LENGTH AND
NUMBER OF TRENCHES
FOR SEWERAGE TO
BE DETERMINED AT
THE TIME OF SEPTIC
SYSTEM PERMIT
ISSUANCE.

15,000 sq ft PROPOSED
DISTURBANCE AREA,
TO BE PROTECTED BY
SILT FENCE OR OTHER
ACCEPTABLE MATERIALS.

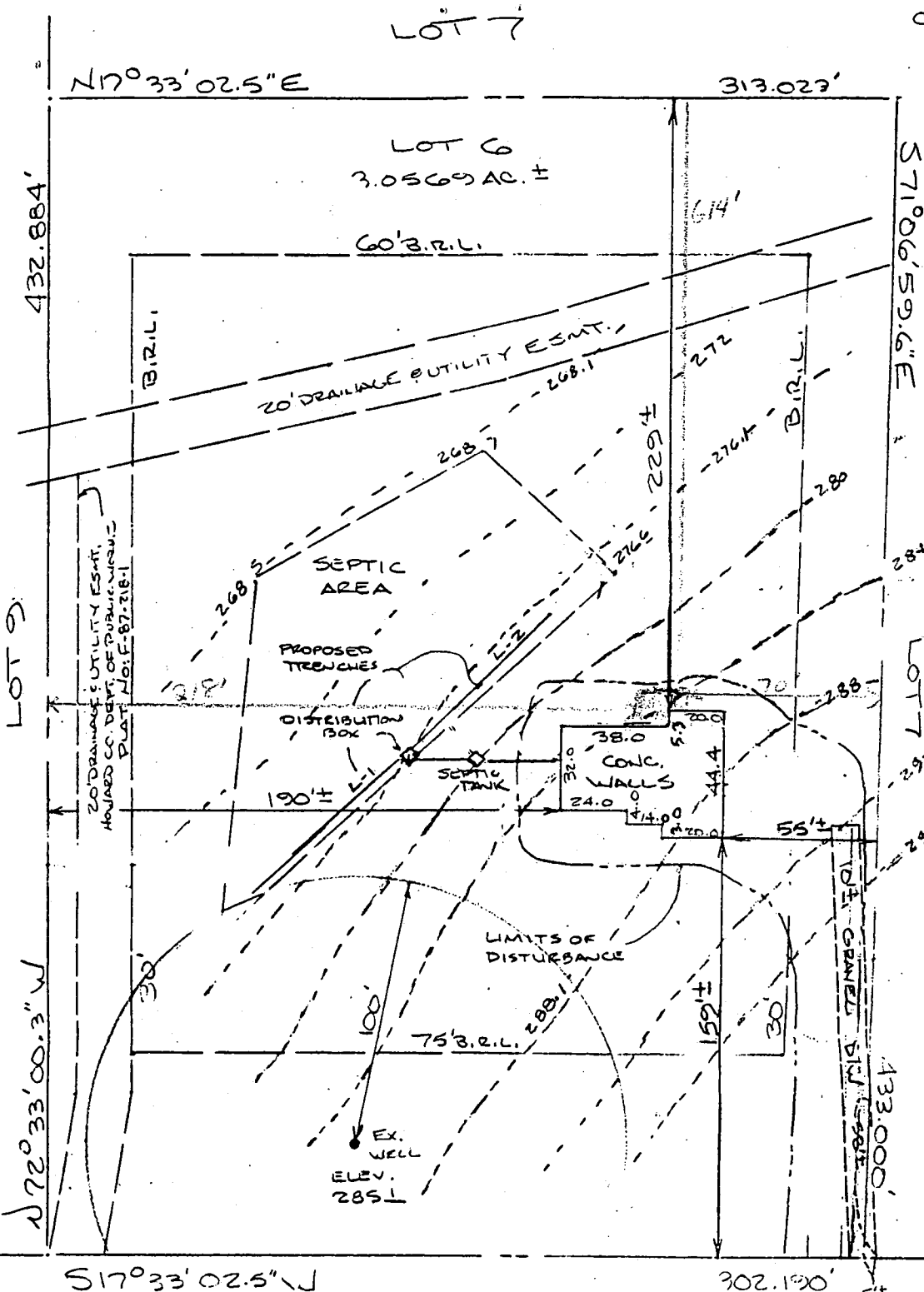
Shaded area has been eliminated from
septic easement, due to the encroachment
of the well radius. (Km)

PLOT PLAN
LOT 6 & SECTION 1 V AREA 3
FERMINO ESTATES
SITUATED ON TRIADELPHIA ROAD
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

PLOT PLAN: 9-8-97

CERTIFICATE		REFERENCES		ZENITH SURVEYS	
I hereby certify that the property delineated hereon is in accordance with the Plat of Subdivision and/or deed of record, that the improvements were located by accepted field practices and include permanent visible structures and encroachments, if any.		PLAT BK. HOWARD CO.		SURVEYING • PLANNING	
		PLAT NO. 7496		200 DILL AVENUE • FREDERICK, MD. • 21701	
		LIBER		DATE OF SURVEYS	SCALE: 1" = 60'
		FOLIO		WALL CHECK	DRAWN BY: WJHY
TITLE REPORT NOT FURNISHED				HSE LOC	JOB NO.: 97-1049
				BOUNDARY	

FLOOD ZONE: C
COMMUNITY PANEL #
240044-00203



PROPOSED HOUSE
FF ELEV. 291.3
BSMT ELEV. 282.57
INV. OUT ELEV
281.2

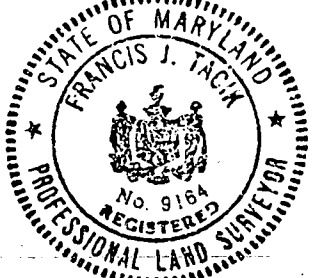
PROPOSED
SEPTIC TANK
EX. ELEV. 280.2
INV. IN 276.3
INV. OUT 276.4

PROPOSED
DISTRIBUTION BOX
EX. ELEV. 276.3
INV. IN 272.8
INV. OUT 272.6

* PROPOSED
TRENCHES
LINE 1:
EX. ELEV 276.3
INV. IN 272.2
LINE 2:
EX. ELEV. 276.3
INV. IN 272.0

* 20'74\" - 148\" L.F.
2\" WIDE, 3.5\" STONE
MAX. BOTTOM DEPTH
= 8\"
ACTUAL LENGTH AND
NUMBER OF TRENCHES
FOR SEWERAGE TO
BE DETERMINED AT
THE TIME OF SEPTIC
SYSTEM PERMIT
ISSUANCE.

17,000 \$ ± PROPOSED
DISTURBANCE AREA,
TO BE PROTECTED BY
SILT FENCE OR OTHER
ACCEPTABLE MATERIALS.



TRIADELPHIA ROAD
60' R/L

B00112780

7/2/98

Deck location
or as shown

LOCATION OF WALLS
LOT 6 ~ SECTION 1 UAR 5 A 3
FERMINO ESTATES

SITUATED ON TRIADELPHIA ROAD
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

DATE Received
8 13

DATE WELL COMPLETED
012888
15 20

Depth of Well
22 105 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
H0-81-2506
28 29 30 31 32 33 34 35 36 37

OWNER
BASSLER
STREET OR RFD
TRIADELPHIA ROAD
SUBDIVISION
FEMIANB ESTATES
TOWN
DAVID
GLENELG
SECTION
1
AREA
3
LOT
6

WELL LOG		
Not required for driven wells		
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		
DESCRIPTION (Use additional sheets if needed)	FEET	
	FROM	TO
Top Soil	0	2
Sandy	2	18
Sand Stone	18	20
Micka	20	30
Sand Stone	30	35
Micka	35	105

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)
☒ Y ☐ N

TYPE OF GROUTING MATERIAL
CEMENT ☒ CM BENTONITE CLAY ☐ BC

NO. OF BAGS 42 NO. OF POUNDS 300

GALLONS OF WATER 42

DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 25 ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below
☒ ST ☐ CO
STEEL CONCRETE
☒ PL ☐ OT
PLASTIC OTHER

MAIN CASING TYPE ☒ PL

Nominal diameter top (main) casing (nearest inch) 6

Total depth of main casing (nearest foot) 28

OTHER CASING (if used)

diameter inch from to

EACH CASING

SCREEN RECORD

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

C2

DEPTH (nearest ft.)

EACH SCREEN

1 H0 26 105

2

3

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

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 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. 273

DRILLERS SIGNATURE
Ralph S. Mayne

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

TELESCOPE CASING

LOG INDICATOR

OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min. to nearest gal.) 10

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface) BEFORE PUMPING 32

WHEN PUMPING 34

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: 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

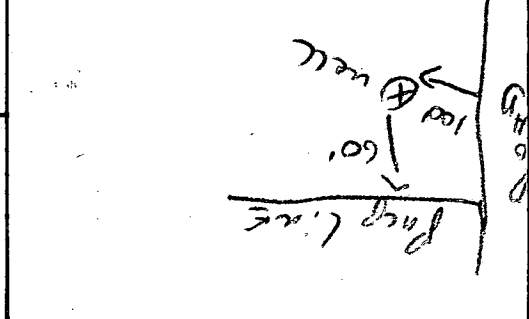
PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)
☒ + above
☐ - below
LAND SURFACE 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)



Well Permit No. HO - 81-2506
Location of property (road) TRIADELPHIA ROAD
Subdivision ESMIANO ESTATES Lot 6 Block Plat Sec. 1 AREA 3
Well Driller RALPH MAYNE Owner BASSLER, DAVID

I. High rate pumping -- reservoir drawdown

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

[illegible]

28' PL 25 cm 7 bags

Review 5/6/88 RH

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2506
Location of property (road) TRIADLPHIA ROAD
Subdivision FEMIANO ESTATES Lot 6 Block Plat Sec. 1 AREA 3
Well Driller RALPH MAYNE Owner BASSLER, DAVID

Depth of well 105 ft
Distance of measuring point (M.P.) above ground 2 ft.
Static water level (S.W.L.) below M.P. 32 ft

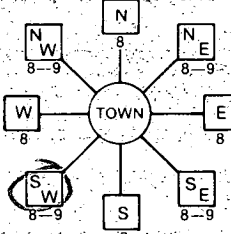
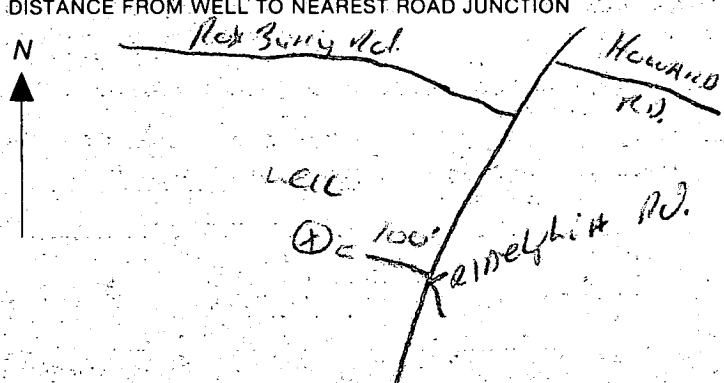
I. High rate pumping -- reservoir drawdown

Time pump started 9:00 am Pumping rate 10 gpm
Total time 15 min to reach pumping water level 32 ft. ft. below M.P.

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

[illegible]

1-28-88 Well pumps a 100 ft.
water sample taken at 10:42 am
H1344. NEA ¹¹ / 100 in

B 1 4910 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	SEQUENCE NO. (DP USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL please print or type	STATE PERMIT NUMBER HC-81-2596 fill in this form completely
Date Received (APA) 122387		B 3 LOCATION OF WELL	
OWNER INFORMATION 15 Last Name BASSLE Owner DAVID First Name DAVID 36 Street or RFD 12773 FOLLY 24AFTER 57 Town ELLICOTT City CITY State MD Zip 21043		8 COUNTY HOWARD 23 SUBDIVISION FEMIANO EST SECTION 1 LOT 6 (AREA 3) 52 NEAREST TOWN GLENEALS MILES FROM TOWN (enter 0 if in town) 2 MI	
DRILLER INFORMATION Driller's Name KALH MAYNE 77 License No. 273 Firm Name KALH MAYNE WELL DRILLING Address 9120 Brown Church Rd Mt Airy Signature Kalh Mayne Date 12/16/87		B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 	
B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500		11 NEAR WHAT ROAD Tra Delphia Rd. ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH ☐ WEST ☒ EAST ☐ SOUTH ☐ 34 100 37 FL DISTANCE FROM ROAD ENTER FT or MI	
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 COUNTY NAME A 38228 COUNTY NO. STATE SIGNATURE _____ DATE ISSUED 01/22/88 CO SIGNATURE B. N. Wilson EXP. DATE 07/22/88 NORTH GRID 516000 EAST GRID 0793000	
APPROXIMATE DEPTH OF WELL 150 FEET APPROXIMATE DIAMETER OF WELL _____ 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 7903 N 5166 000 000	
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 DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) _____		DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 	
Not to be filled in by driller (OEP USE ONLY)			
APPROP. PERMIT NUMBER _____ FORCE B INITIALS B PERMIT NO. HC-81-2596 SPECIAL CONDITIONS			