10/25/91 AM

Tax ID-05-409144

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 47528

A 37795

DISTRICT 5th

DATE 10/24/91

INDEX - TIME - EXPIRED FOR F.C.O.P COMPLIANCE

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

DATE SYSTEM APPROVED 10/25/91

INDEXED 7/8/13 C. Williams/CBA

INSPECTOR RH

C. C. Cissel IS PERMITTED TO INSTALL X ALTER _____

ADDRESS 14079 Brighton Dam Road, Clarksville, Maryland PHONE 854-2006

SUBDIVISION Clearview Estates LOT 14 ROAD 5215 Sheppard Lane

PROPERTY OWNER Richard and Barbara Costa

ADDRESS 8369 Tamar Drive
Columbia, Maryland 21045 21045

SEPTIC TANK CAPACITY 1000 GALLONS

NUMBER OF BEDROOMS 3

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 210

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 - Place distribution box 200' from the front (445.97') lot line and 190' from the left (287.13) lot line. Run trenches on contour, first three toward front of lot, others in both directions.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 7/18/91 RH

PLANS APROVED BY Mark Rifkin cm DATE 3/13/91

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.

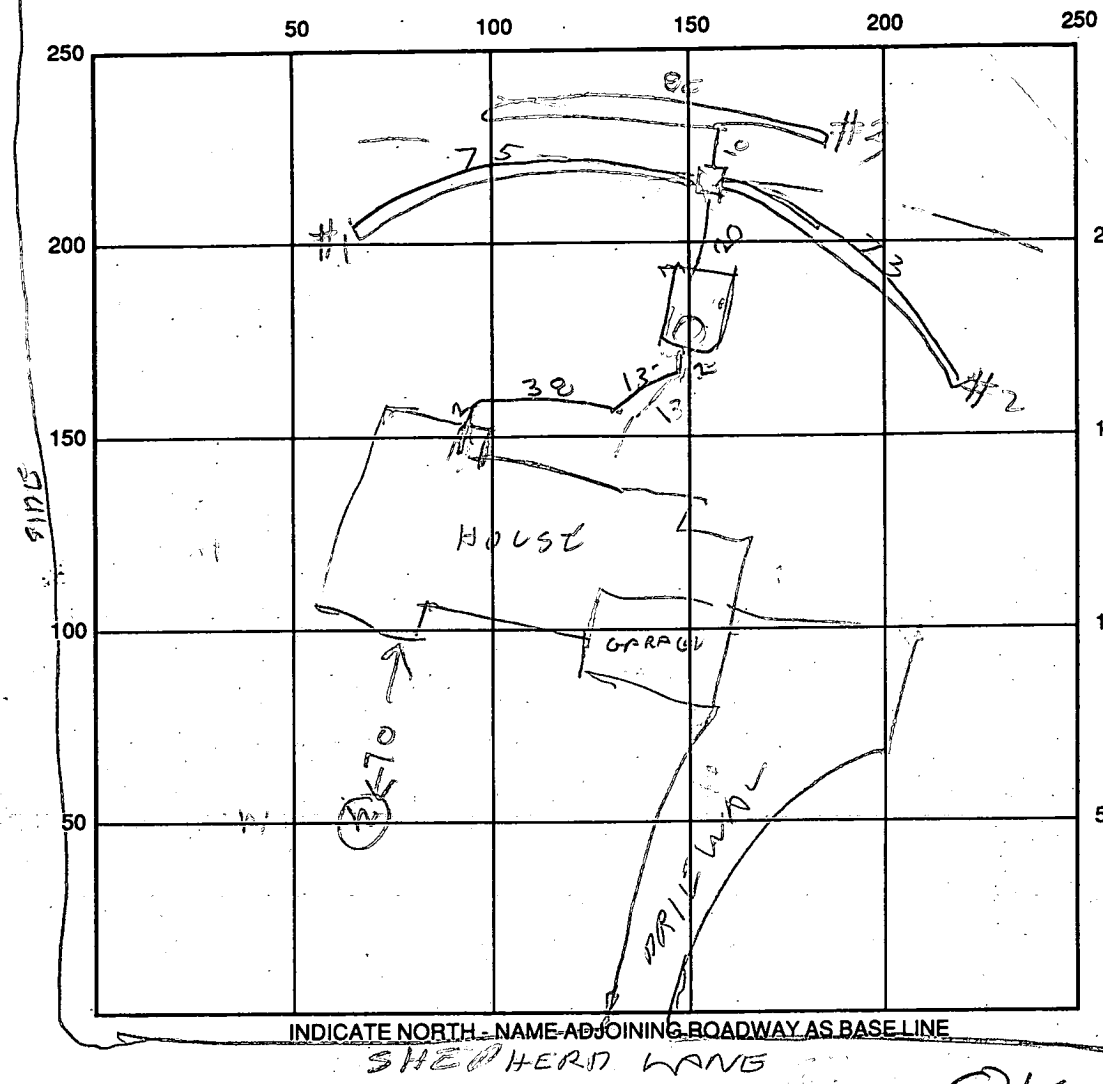
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

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

HD-260(6-90)

A 37795



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEE PLANS

5215 SHEPHARD LANE

SEPTIC TANK LEVEL 1000 CLEANOUTS OK septic tank

DISTRIBUTION BOX LEVEL OK

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

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH

1	2	3	TOTAL
76	73	80 FT.	228

NUMBER OF TRENCHES 3 ~~ONE SIDEWALL~~/BOTTOM AREA 684 SQ. FT.

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

ABSORBENT AREA _____ SQ. FT.

REMARKS: _____

DATE SYSTEM APPROVED 10/25/91 INSPECTOR Raymond Hodges

APPLICATION

A 37795

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P _____

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 473 ELLICOTT CITY, MARYLAND 21043
TELEPHONE 992-2330

DISTRICT _____

DATE ~~June 30, 1986~~ 10/10/86

10/16/86 perc OK'd pending approved plat

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 ~~Conrad J. and Patricia Langenfelder~~ Richard & Barbara Costa — Martha V. Langenfelder

ADDRESS 11904 Clarksville Road, Clarksville, Maryland 21029 — PHONE 5511 Hamilton Avenue, Baltimore, Maryland 21206

PROPERTY LOCATION:

SUBDIVISION ~~Langenfelder Farm~~ Clearview Est. Sec. 1 LOT NO. 23 14/6 10's Prelim

ROAD AND DESCRIPTION Maryland Route 108 and Shepherd Lane 525 Shepherd La.

SIZE OF LOT 5.3 AC. TYPE BLDG. Residential
(NUMBER OF BEDROOMS)

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. Steven P. Gumaer

(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING for field location all holes (plan necessary extension of perc field

BLDG. PERMIT SIGNED AND RETURNED 1/8/91

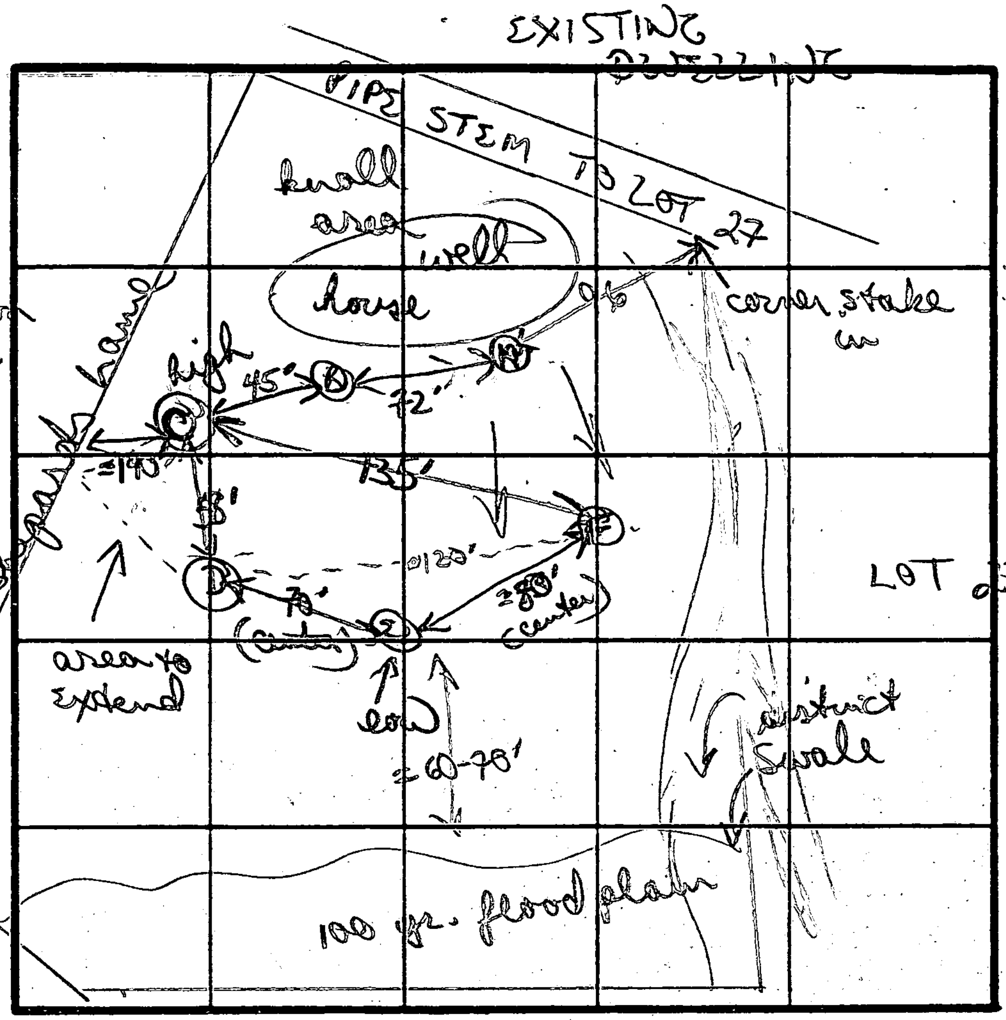
38486 3 Bedrooms Single Family Dwelling

THIS IS NOT A PERMIT

~~INLET 3½~~
~~MAX 5½~~
~~187 Ø/BDRM~~
~~X̄ 9 MIN~~

(A+B) SOIL PROFILE

0'
orange/brown silty/mica loam mixed w/ layers weathered frags ↑ w/ depth till hard bottom at 4' + 7'



INDICATE NORTH · NAME ADJOINING ROADWAY AS BASE LINE.

(E)
Chester gravely soil top 4" with gritty chunky clay loam From 5-8' gravely layer back into silty loam w/ layered weathered 10½ 6
12½D

(C)
mix of silty/chunky orange brown silty clay loam -4' more to brown/orange silty/mica loam w/ 5-10% small weathered
12½D

D
red/orange brown powdery/gritty clay silt loam 4' red brown to tan brown silty mica loam with scattered small frags rock
12'D

(F)
tan brown silty/mica loam 4' layered structured material 7' silty mica loam w/ 15% small/ppe frags
12'D

X̄ 9 MIN
200 Ø/BR
Inlet 3'
Bottom 5'

DATE	TEST NO.	DEPTH	PRE-WET START	PRE-WET STOP	TEST · 1" DROP START	TEST · 1" DROP STOP	TIME
10/16/86	A+B	4'+7'	hard rock bottoms (NOT tested)				
	✓C	4'S	2:20	2:23	2:23	2:28	5MIN
		8'M	2:20	2:21	2:21	2:22	1MIN
		12½D	bottom (see profile)				
	✓D	3½S	2:30	2:36	2:36	2:48	12MIN
		12'D	bottom (see profile)				
	✓E	4'S	2:36	2:46	2:46	3:11	25MIN
		12½D	bottom (see profile)				
	✓F	3½S 8'M	2:42 2:42	2:43 2:48	2:43 2:48	2:45 2:55	2MIN 7MIN
		12'D	(bottom see profile)				

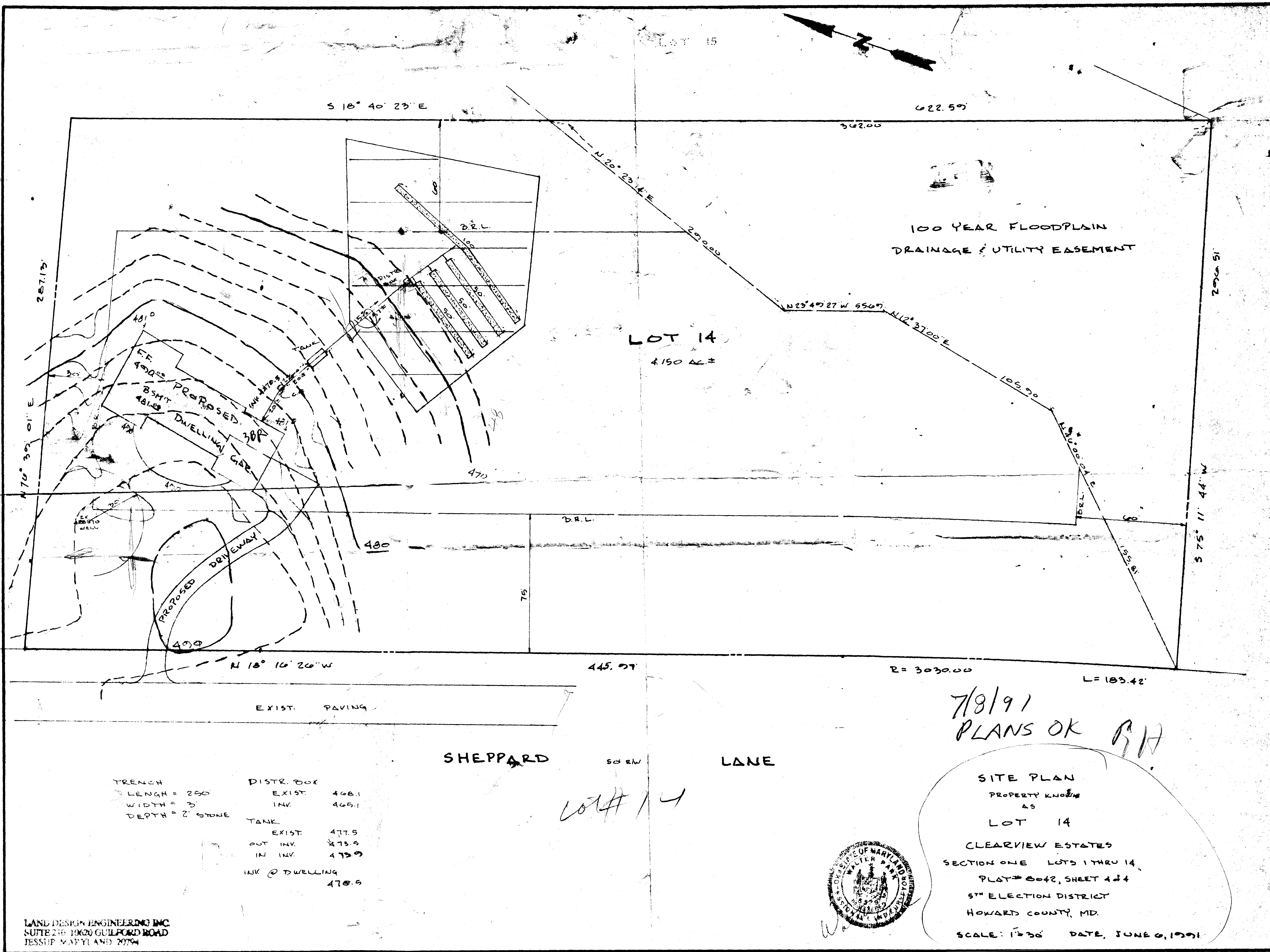
SHALLOW SYSTEM ONLY (FOR ROCK + FUTURE NEAR FLOOD PLAIN)

REMARKS: only partially staked. As tested slightly less 10K Ø. Can extend field between C+D to get necessary Ø

TYPE OF SOIL: ~~Chester soils, orange clay loams, up to 15% weathered material~~

TESTED BY: B Nixon

ALSO PRESENT: Jane/digger


LOT 15
N
S 18° 40' 23" E
622.59
362.00
N 20° 23' 14" E
290.00
N 23° 40' 27" W 55.69
N 12° 37' 00" E
105.90
100 YEAR FLOODPLAIN
DRAINAGE & UTILITY EASEMENT
LOT 14
4.150 AC.±
D.R.L.
TANK
PROPOSED
DWELLING
GAR.
3BR
F.F.
BSMT.
481.0
470
480
490
PROPOSED DRIVEWAY
WELL
N 70° 39' 01" E
287.13
S 75° 11' 44" W
155.81
N 18° 16' 26" W
445.07
R = 3030.00
L = 183.42
EXIST. PAVING
SHEPPARD
50' R/W
LANE
7/8/91
PLANS OK
Lot # 14
TRENCH
LENGH = 250
WIDTH = 3'
DEPTH = 2' STONE
DISTR. BOX
EXIST. 468.1
INV. 465.1
TANK
EXIST. 477.5
OUT INV. 473.5
IN INV. 473.9
INV. @ DWELLING
478.5
SITE PLAN
PROPERTY KNOWN AS
LOT 14
CLEARVIEW ESTATES
SECTION ONE LOTS 1 THRU 14
PLAT # 8042, SHEET 4 of 4
5TH ELECTION DISTRICT
HOWARD COUNTY, MD.
SCALE: 1"=30' DATE, JUNE 6, 1991
STATE OF MARYLAND
WALTER PARK
LAND DESIGN ENGINEERING INC.
SUITE 210 10620 GUILFORD ROAD
JESSUP MARYLAND 20794

C 1 4540 SEQUENCE NO. (DENV USE ONLY)
1 2 3 6
(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

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 37795

ST/CO USE ONLY
DATE Received (8 . 13)

DATE WELL COMPLETED 03 20 91 (15 20)

Depth of Well 22 185 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-88-167A (28 29 30 31 32 33 34 35 36 37)

OWNER COSTA (last name) RICHARD (first name)

STREET OR RFD Shepard La TOWN Clarksville

SUBDIVISION CLEARVIEW ESTATES SECTION LOT 14

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	FEET TO	Check if water bearing
Sand Stone	0	37	
Graynite Rock	37	185	

GROUTING RECORD
WELL HAS BEEN GROUTED (Circle Appropriate Box) yes Y (44) no N (44)

TYPE OF GROUTING MATERIAL

CEMENT CM (45 46) BENTONITE CLAY BC (45 46)

NO. OF BAGS 11 NO. OF POUNDS 1034

GALLONS OF WATER 66

DEPTH OF GROUT SEAL (to nearest foot)

from 0 (48 TOP 52) ft. to 36 (54 BOTTOM 58) ft.
(enter 0 if from surface)

CASING RECORD
casing types insert appropriate code below

ST STEEL CO CONCRETE PL PLASTIC OT OTHER

MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)
ST (60 61)	6 (63 64)	42 (66 70)

EACH CASING — OTHER CASING (if used)

diameter inch	depth (feet) from	to

SCREEN RECORD
screen type or open hole insert appropriate code below

ST STEEL BR BRASS BRONZE HO OPEN HOLE PL PLASTIC OT OTHER

C 2

EACH SCREEN

	DEPTH (nearest ft.)	
1	40 (8 9)	185 (11 15 / 17 21)
2	(23 24)	(26 30 / 32 36)
3	(38 39)	(41 45 / 47 51)

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN (56 60) (NEAREST INCH)

from to

GRAVEL PACK

IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 (68)

C 3

PUMPING TEST
HOURS PUMPED (nearest hour) 3 (8 9)

PUMPING RATE (gal. per min. to nearest gal.) 5.5 (11 15)

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 31 (17 20)

WHEN PUMPING 51 (22 25)

TYPE OF PUMP USED (for test)

A air (27) P piston (27) T turbine (27)
C centrifugal (27) R rotary (27) O other (describe below) (27)
J jet (27) S submersible (27)

PUMP INSTALLED
DRILLER WILL INSTALL PUMP (CIRCLE) (YES or NO) 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)

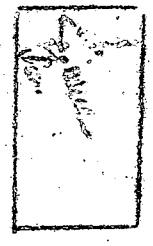
PUMP HORSE POWER (37 41)

PUMP COLUMN LENGTH (nearest ft.) (43 47)

CASING HEIGHT (circle appropriate box and enter casing height)
+ above (49) / − below (49) LAND SURFACE 2 (nearest foot) (50 51)

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)

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

DRILLERS IDENT. NO. 938

Donald E. Myers

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) REVIEW DEBIT VERIFIED COMPLETE

T (E.R.O.S.) RECEIPT WO (74 75 76)

70 TELESCOPE CASING 72 LOG INDICATOR OTHER DATA

COUNTY

EMERGENCY/TEMP NO. IF ANY

B 1 **0058** 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-88-1677 fill in this form completely

Date Received (APA) 020491

OWNER INFORMATION

COSTA RICHARD
Last Name Owner First Name

14006 CASTLEBAR DRIVE
Street or RFD

GLENWOOD MD 21738
Town State Zip

DRILLER INFORMATION

Driller's Name: Joseph L. Mayne License No. 238

Firm Name: Joseph L. Mayne WELL DRILLING

Address: 5512 Ridge Rd. Mt Airy, Md. 21771

Signature: Joseph L. Mayne Date: 3/4/91

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)

- (D) HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY) [circled]
- F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- I INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
- P PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
- T TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

APPROXIMATE DEPTH OF WELL 260 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary [circled] AIR-PERcussion ROTARY (Hydraulic Rotary)
CABLE REVerse-ROTary DRive-POINT
other

REPLACEMENT OR DEEPENED WELLS

(CIRCLE APPROPRIATE BOX)

- (N) THIS WELL WILL NOT REPLACE AN EXISTING WELL [circled]
- 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
- D THIS WELL WILL DEEPEN AN EXISTING WELL

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

Not to be filled in by driller (OEP USE ONLY)

APPROP. PERMIT NUMBER GAP

FORCE MR WRITE INITIALS IN BOX PERMIT No. HO-88-1677

SPECIAL CONDITIONS

B 3 LOCATION OF WELL

COUNTY: HOWARD

SUBDIVISION: CLEARVIEW ESTATES

SECTION LOT 14

NEAREST TOWN: CLARKSVILLE

MILES FROM TOWN (enter 0 if in town) 2 MI

B 4

Sheppard Lane NEAR WHAT ROAD

DIRECTION OF WELL FROM TOWN (CIRCLE BOX): NE [circled]

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): EAST [marked]

DISTANCE FROM ROAD 50 ENTER FT or MI FT

NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

COUNTY NAME: Howard COUNTY NO.: A37795

STATE SIGNATURE INSERT S

DATE ISSUED 031291 CO SIGNATURE Mark E. Rifkin EXP. DATE 9/12/91

NORTH GRID 000 EAST GRID 000 ←?

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

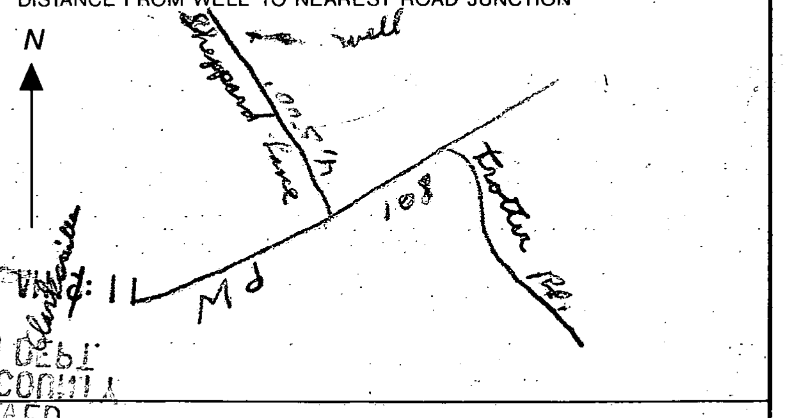
SOURCES OF DRILLING WATER
1. WELL
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 810
N 510

3/20/91 Well Grout / R.H. per J. MAYNE'S STAFF; 11# Bags of cement; 42' Casing; 36' Open grout; 2' Casing above ground. C.B.C. (Tag ✓ out ok)

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



HEALTH DEPT HOWARD COUNTY RECEIVED 91 MAR -4 AM 11:16

COUNTY