

03-314391
PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

P 47471

A 39565

DISTRICT 5th

DATE 9/13/91

DATE SYSTEM APPROVED 9/19/91

INSPECTOR RH

INDEXED

Dave Hopkins IS PERMITTED TO INSTALL ALTER

ADDRESS 17550. Old Frederick Road, Mt. Airy, Maryland 21771 PHONE 831-7257

SUBDIVISION Crystal Clear LOT 8 ROAD 13870 Kennard Drive

PROPERTY OWNER Louis A. Palmiere, Jr.

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 210

TRENCHES - Trench to be 2 feet wide. Inlet 3½ feet below original grade. Bottom maximum depth 7½ feet below original grade. Effective area begins at 3½ feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Start the first trench 140' from the front lot line and 115' from the right lot line. Run trenches along contour toward right lot line.

NOTE - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. OK 8/27/91 RH

PLANS APPROVED BY Craig Williams cm DATE 6/29/89

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

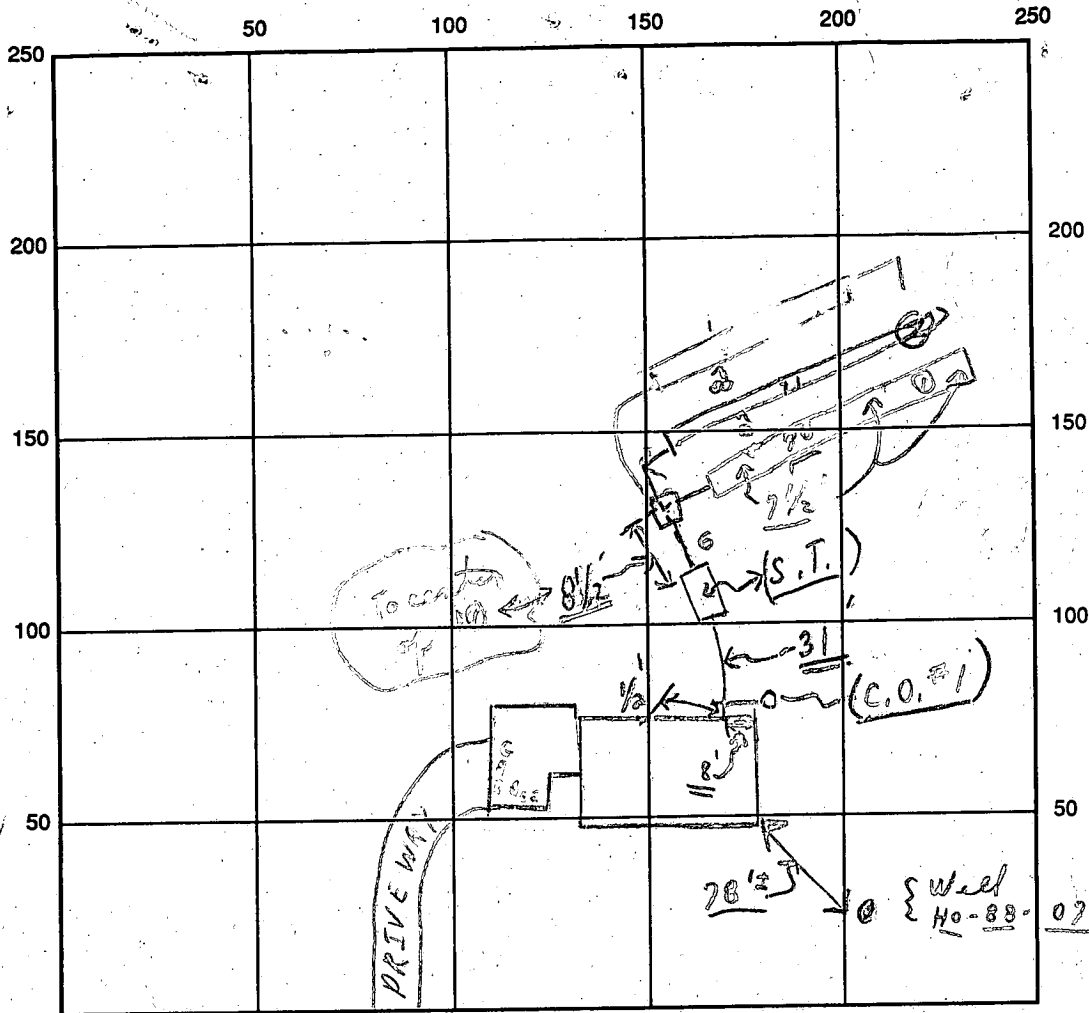
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON, CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

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 39565



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK Renard Dr. CLEANOUTS S.T. / C.O. #1
OK OK

DISTRIBUTION BOX LEVEL (Baffle is in)

DRAIN FIELD/TILE DEPTH 7 1/2 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 1/2 FT.

EFFECTIVE GRAVEL DEPTH 4 FT. TOTAL LENGTH 20 / 31 / 31 FT. } = 222 TOTL

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

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

ABSORBENT AREA _____ SQ. FT.

REMARKS: 9/19/91 Pastured in A.M. - only tanks @ 10:00; no trenches done, ob. to cover pipes from house to septic tanks only;

9/19/91 Late A.M. - Pastured #01 trench women - ob. for stone to call for installation of pipe 9/19/91 P.M. to 9/20/91 A.M. c.B.D.

9/19/91 3PM TRENCH #1 & #2 OK & FINISH TRENCH #3. c.B.D.

9/19/91 4PM TRENCH #3 OK

DATE SYSTEM APPROVED 9/19/91 INSPECTOR Raymond Hodges

APPLICATION

PERCOLATION TESTING

A 39565

P _____

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

7-22-87
Perics ok pending
plat approval JEN

DISTRICT 5th

DATE 6-12-87

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

Check well site - Very tight. Septic near lot 13
stake in el.

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

Palmiere
Louis A. Palmieri, Jr.

PROPERTY OWNER ~~Kenward Warfield Jr~~ Capital Clear General Partnership

ADDRESS 14663 Tridelphia Rd Glenely 21737 PHONE 442-2337
795-6078

PROSPECTIVE BUYER N/A

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

LOT 8 Preliminary
12

SUBDIVISION Crystal Clear LOT NO. _____

ROAD AND DESCRIPTION West side Ivory Rd North side Tridelphia Rd
(13870 Cleared Drive)

TAX MAP 22 PARCEL # 533

SIZE OF LOT 3 1/2 acres TYPE BLDG. SFD
(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.

Mal D. Rein
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 7-22-87 for perc location and subdivision plat approval.

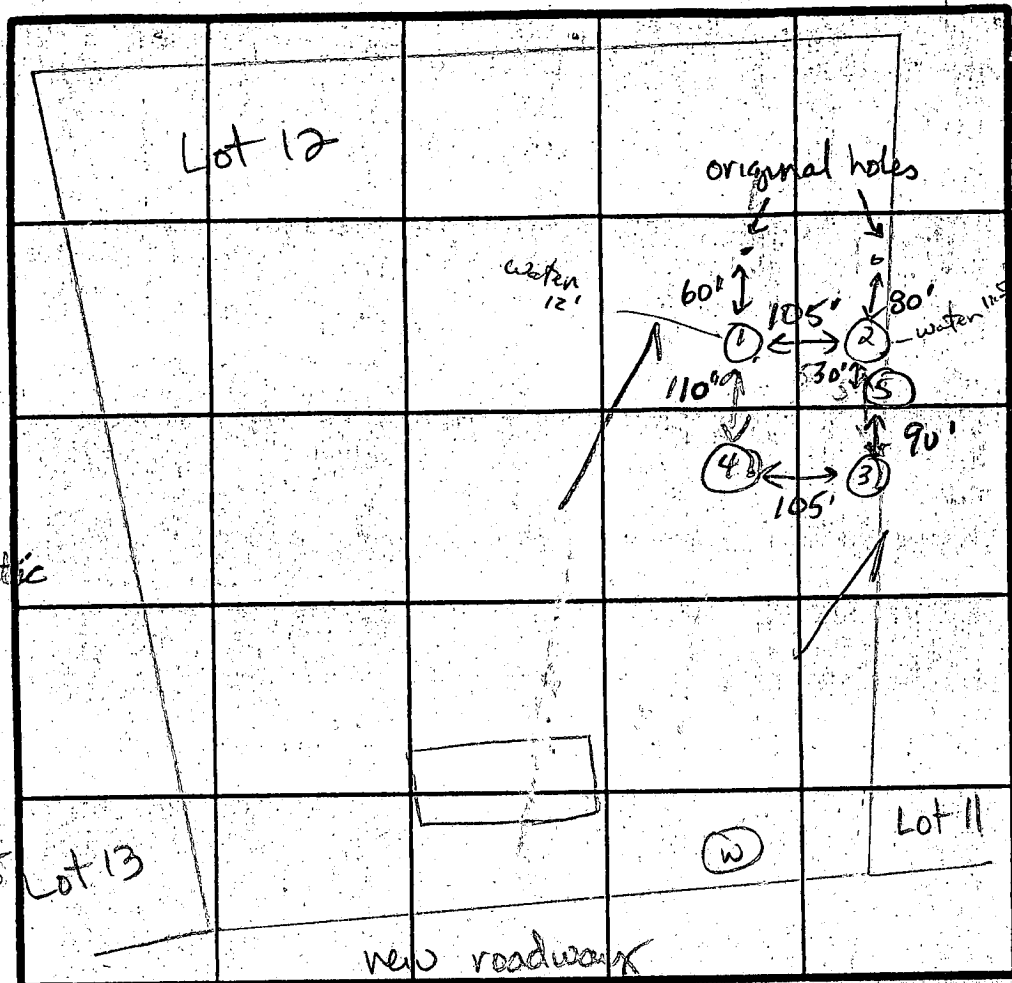
Check 100' from septic to well, JEN
BLDG. PERMIT SIGNED AND RETURNED 8/24/91
Serial # 39090-SFD 4 Bedrooms
Serial # 39097-SFD 5 Bedrooms with gar. shop

THIS IS NOT A PERMIT

4 Highest
 3
 2-1 Lowest
 ②

SOIL PROFILE

0-4.0 Br sicl loam
 4.0-10.0 Br si loam
 10.0-12.0 Br silty sandy saprolitic loam, relict structure with black micaceous layers, wet
 12.0 Bottom
 Water at 11.5'



④
 0-3.5 Br si cl loam
 3.5-12.0 Br sa si loam
 trc broken rock 22%
 12.0 Bottom

⑤
 0-2.0 Rd br si cl loam
 2-13 Br sa si lm
 13.0 Bottom
 Dry

Specs
 Invert @ 4.0'
 4 4.0' - 6.0' stone

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

WORY RD

①
 0-2.5 Br sicl loam
 2.5-11.0 Br si loam
 11.0-12.0 Br si sandy loam
 12.0 Bottom
 Water at 12.0'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-22-87	3	4.0 S	2:06	2:09	2:09	2:10	2
		7.0 M	2:06	2:08	2:08	2:11	3
		12.0 D	Bottom (see profile)				
	4	12.0 V	(see profile)				ok
	2	4.0 S	2:23	2:26	2:26	2:29	3
		12.0 D	Bottom (see profile - water at 11.5')				
	1	3.5 S	2:29	2:31	2:31	2:33	2
		12.0 D	Bottom (see profile - water at 12.0')				
	5	13.0 V	(see profile)				ok

③
 0-4.0 Br cl si lm
 4.0-12.0 Pink sa si loam
 12.0 Bottom

REMARKS
 Water at 12' in ① and 11.5' in ②. May be tight on well site at top of lot.
 ①③④ moved 60' upslope, ② moved 80' upslope from plat location

TYPE OF SOIL 0'-3' Br sicl lm, 3'-13' Br-pink sa si lm

TESTED BY JE Nadeau

ALSO PRESENT Mark, Olen Sr.

EH 12-1079

B 1 9165

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

H10-88-0797

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

please print or type

fill in this form completely

Date Received (APA)

052589

OWNER INFORMATION

GOSHEN LAND CO INC

21006 BRINK CT

GAITHERSBURG MD 20879

George F. Easterday

DRILLER INFORMATION

L. Franklin Easterday, Inc.

9205 Brown Church Rd., MT. Airy, Md. 21771

George F. Easterday 5-24-89

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 5

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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)

APPROXIMATE DEPTH OF WELL 200 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered)
JETTED
Jetted & DRIVEN
AIR-ROTARY
AIR-PERCussion
ROTARY (Hydraulic Rotary)
CABLE
REVerse-ROTary
Drive-POINT

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)

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

APPROP. PERMIT NUMBER GAP

FORCE CW PERMIT No. H10-88-0797

SPECIAL CONDITIONS

B 3

LOCATION OF WELL 44394

HOWARD #30 5/25/89

CRYSTAL CLEAR

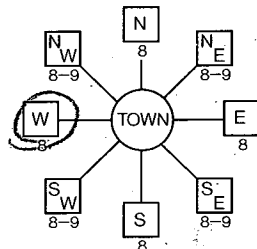
SECTION LOT 8

CLEMELG

MILES FROM TOWN (enter 0 if in town) 1 MI

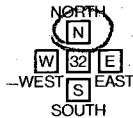
B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



13870 KENWARD DR

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



DISTANCE FROM ROAD 20 FT

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard A 39505

COUNTY NAME COUNTY NO.

DATE ISSUED

063089 Craig Williams 12/30/89

NORTH GRID 503000 EAST GRID 09000000

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

7/28/89 GROUT

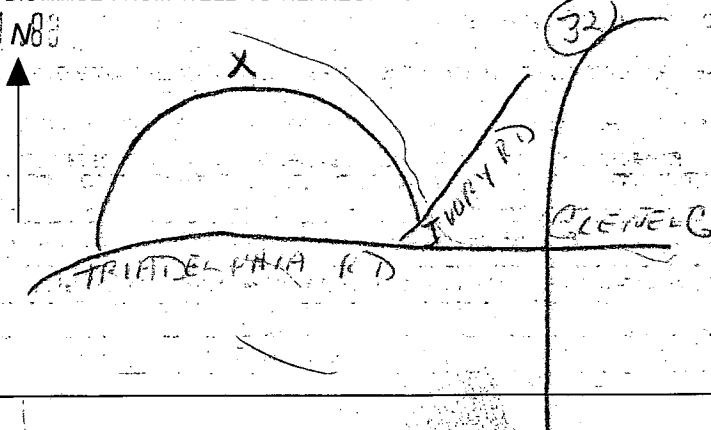
SOURCES OF DRILLING WATER

- 1. well
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

800 0
520 3

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



1 2 3 4 5 6
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

9968

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 39 505

ST/CO USE ONLY
 DATE RECEIVED

DATE WELL COMPLETED

Depth of Well
 22 160 26
 (TO NEAREST FOOT)

PERMIT NO.
 FROM "PERMIT TO DRILL WELL"
 40-58-0797

OWNER last name first name TOWN
 STREET OR RFD
 SUBDIVISION SECTION LOT

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		Check if water bearing
	FROM	TO	
Topsoil	0	2	
B. mica	2	55	✓
Granite	55	63	
Tan mica	63	65	✓
Granite	65	160	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle appropriate box)
 TYPE OF GROUTING MATERIAL
 CEMENT (CM) BENTONITE CLAY (BC)
 NO. OF BAGS NO. OF POUNDS
 GALLONS OF WATER
 DEPTH OF GROUT SEAL (to nearest foot)
 from ft. to 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)
 ST 6 53 160

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 OPEN HOLE
 PL OT
 PLASTIC OTHER

DEPTH (nearest ft.)
 HOLE 53 160
 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

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

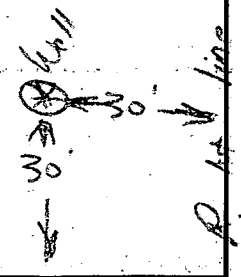
LOCATION OF WELL ON LOT
 SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

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.
 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

COUNTY



HOWARD COUNTY HEALTH DEPARTMENT
 Bureau of Environmental Health
 3525-H Ellicott Mills Drive
 Ellicott City, MD 21043
 461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
 Replacement

Receipt # 47478
 Date 9/16/91

Name of Installer J. JOSEPH GAITLAND, INC.

Telephone 875-2400

License Number 1713

Certified Well Pump Installer Well Driller Registered Plumber

Name of Property Owner LOUIS PALMERI

Telephone 795-6078

Subdivision Crystal Clear Lot # 8

Well Tag # 10-88-0772

Site Address 13870 KENNARD DR.

Pump

- Type
 - Deep well jet
 - Shallow well jet
 - Submersible
- Make Goulds
- Model # 10EJ05422
- Capacity 10 GPM
- Pump exceeds well capacity Yes No
- If Yes, is low pressure cutoff switch installed? Yes No
- What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors Cable guards Other

Motor

- Horsepower 1/2
- RPM
- Voltage
 - 110
 - 220

Pitless Adapter

- Make HOWARD
- Model # PT800
- Depth 42"

Tank

- Capacity 42 gal
- Pressure relief valve? 75 PSI

Piping

- Type PLASTIC
- Size 1"
- NSF and/or BOCA Code approved
- Depth of supply line 42"

Well data

- Depth ft.
- Yield GPM
- Static water level ft.
- Will water supply be disinfected by installer?

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: [Signature]

Date: 8/30/91

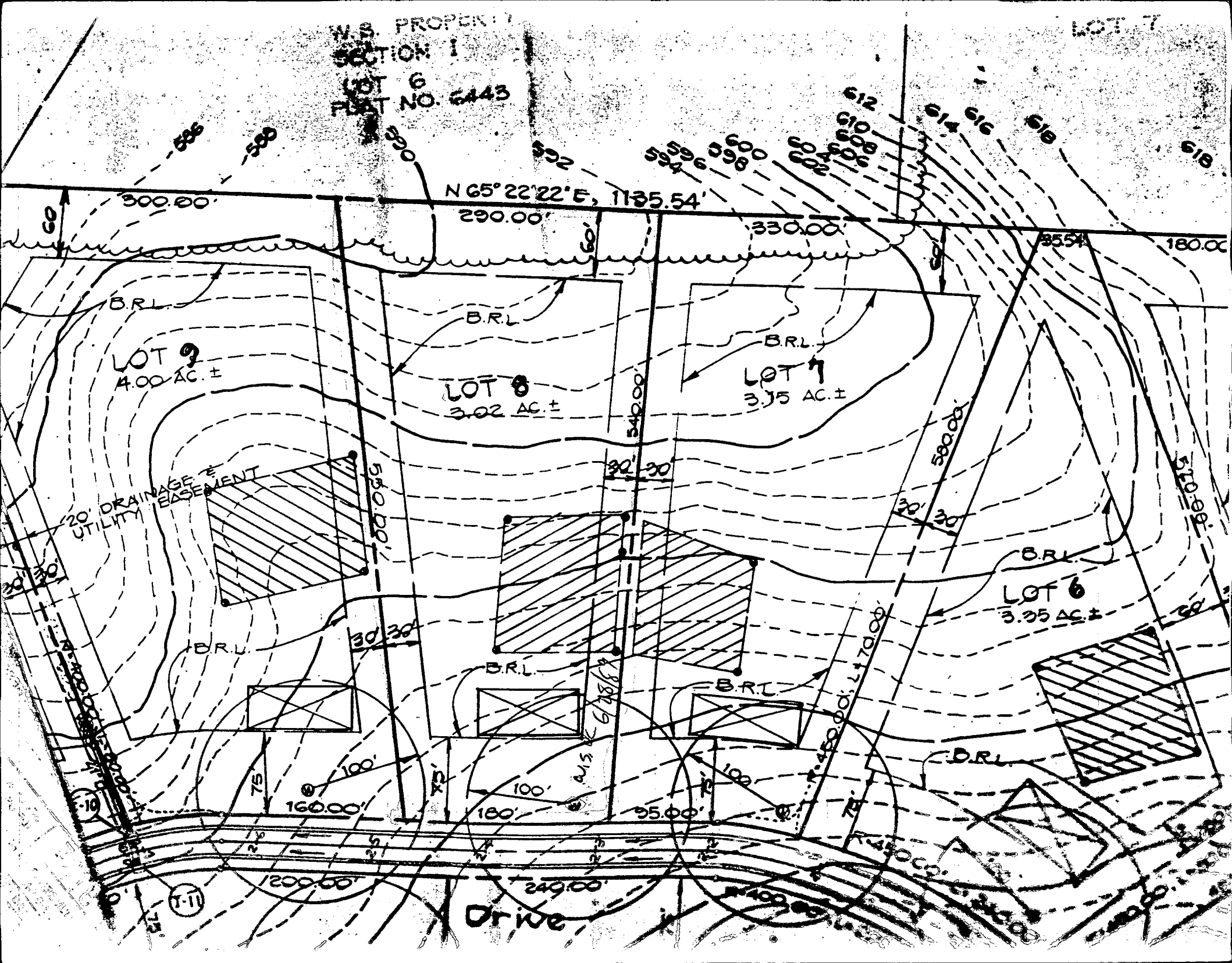
Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

HD-215

*8/16/91 No work done on W.P.I.A.R.M. (9:52)
 9/20/91 1150 DITCH DOG RH C.R.C.
 9/20/91 OK TO COVER OUTSIDE WORK RIT*

PROPERTY
SECTION 1
LOT 6
PLAT NO. 6443

LOT 7



N 65° 22' 22" E, 1135.54'

LOT 9
4.00 AC. ±

LOT 8
3.02 AC. ±

LOT 7
3.75 AC. ±

LOT 6
3.25 AC. ±

Drive

20' DRAINAGE &
UTILITY EASEMENT

586

588

590

592

594

596

598

600

602

610

612

614

616

618

618

300.00'

290.00'

330.00'

355'

180.00'

B.R.L.

B.R.L.

B.R.L.

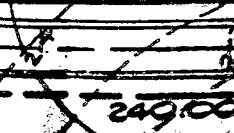
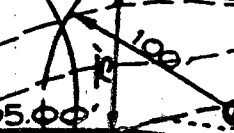
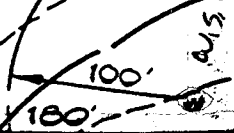
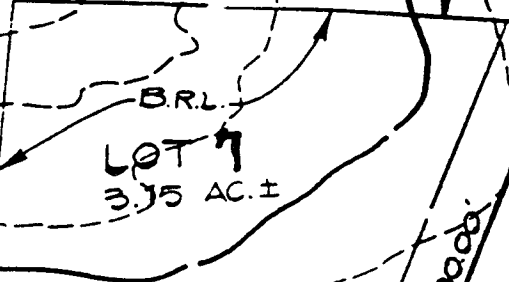
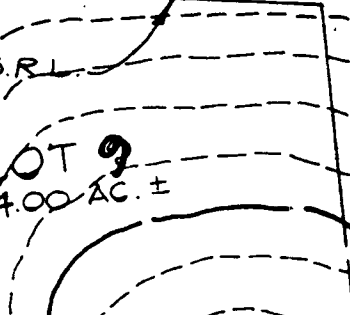
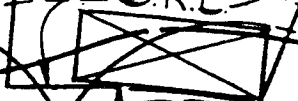
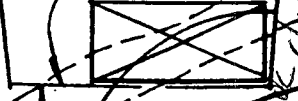
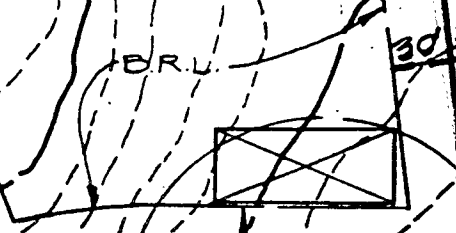
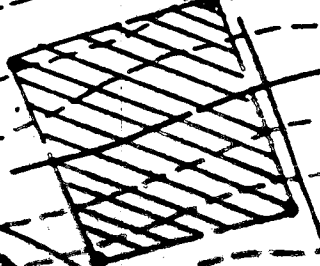
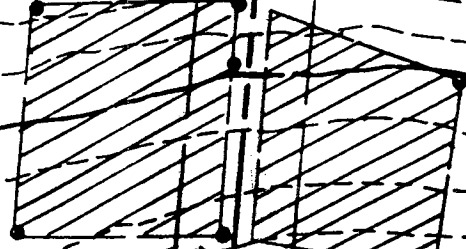
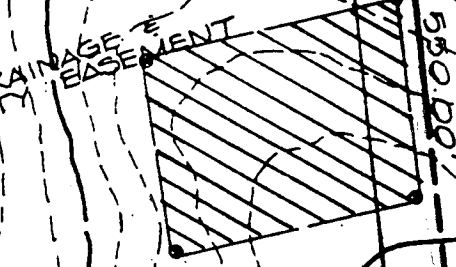
B.R.L.

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B.R.L.



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160.00'

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1200.00'

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249.00'

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1400.00'

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1400.00'

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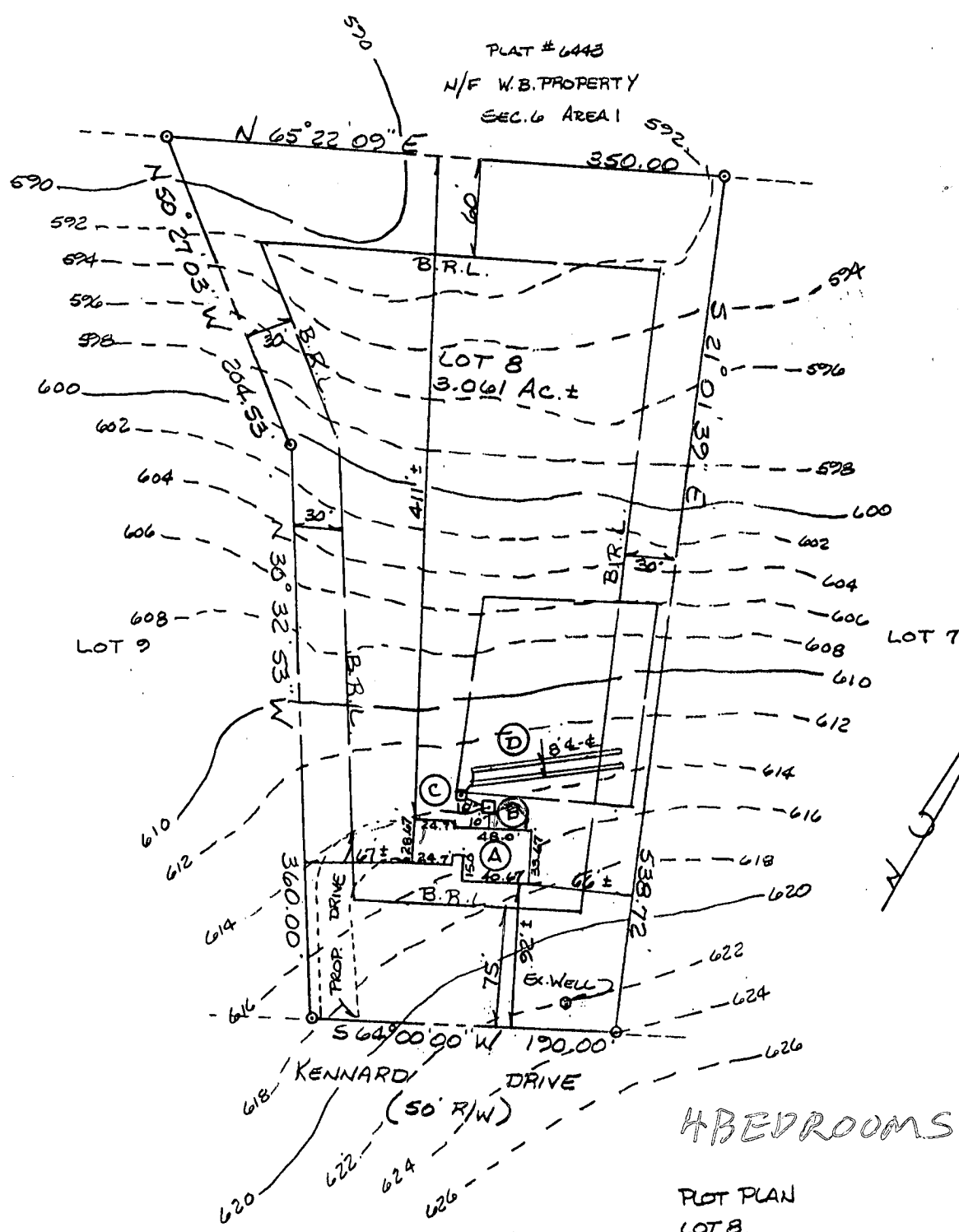
100

160.00'

75

100

- (A) = PROP. HOUSE
F.F. ELEV. = 620.5'
BGMT. ELEV. = 612.0'
INV. ELEV. = 610.8'
- (B) = PROP. SEPTIC TANK
EX. ELEV. = 614.0'
INV. IN = 610.7'
INV. OUT = 610.4'
- (C) = PROP. DIST. BOX
EX. ELEV. = 613.5'
INV. ELEV. = 610.3'
- (D) = PROP. TRENCHES
INV. ELEV. = 610.0'
4" STONE, 7.5' BOTTOM MAX.
LENGTH TO BE DETERMINED
AT TIME OF SEPTIC
PERMIT ISSUANCE.



4 BEDROOMS

PLOT PLAN
LOT 8
CRYSTAL CLEAR
SITUATED ON KENNARD DRIVE
ELECTION DISTRICT N 3
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' JULY 1991

8/20/91
PLANS OK
R Hoages



I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND, AS REFERENCED HEREON.

REFERENCE	JOB NO.
PLAT # 8444	91-10

LIBERTY SURVEY, INC.
3020 BUFFALO ROAD
NEW WINDSOR, MARYLAND
301-876-2784 21776