

7/28/98
11:00
2:00

PERMIT

03-314510

SEWAGE DISPOSAL SYSTEM
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 58977-A

A 39577

DISTRICT 3rd

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

INDEXED

DATE 9/26/98

DATE SYSTEM APPROVED 7.28.98

INSPECTOR KM

Arnold Backhoe & Septic Service IS PERMITTED TO INSTALL ALTER

ADDRESS P. O. Box 15, Woodbine, Maryland 21797 PHONE 410-795-7873

SUBDIVISION Crystal Clear LOT 19 ROAD 13905 Kennard Drive

PROPERTY OWNER Salvadore & Elsie Vitale

ADDRESS

SEPTIC TANK CAPACITY 1250 GALLONS DRYWELL AND TRENCH

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

Minimum total square feet for drywell: 720

DRYWELL - Inlet 4.5 feet below original grade. Bottom maximum depth 12.5 feet below original grade. Effective area begins at 4.5 feet below original grade.

TRENCH - Trench length: 30 FEET Trench to be 2 feet wide. Inlet 4.5 feet below original grade. Bottom maximum depth 12.5 feet below original grade. Effective area begins at 4.5 feet below original grade. 8 feet of stone below distribution pipe.

LOCATION - Drywell to be installed at location of perc hole (B), tested 7-10-98. Trench to be installed off drywell, along contour.

NOTE - Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank and drywell.

PLANS APPROVED BY Donna K. Soe REVISED DATE 7-21-98

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

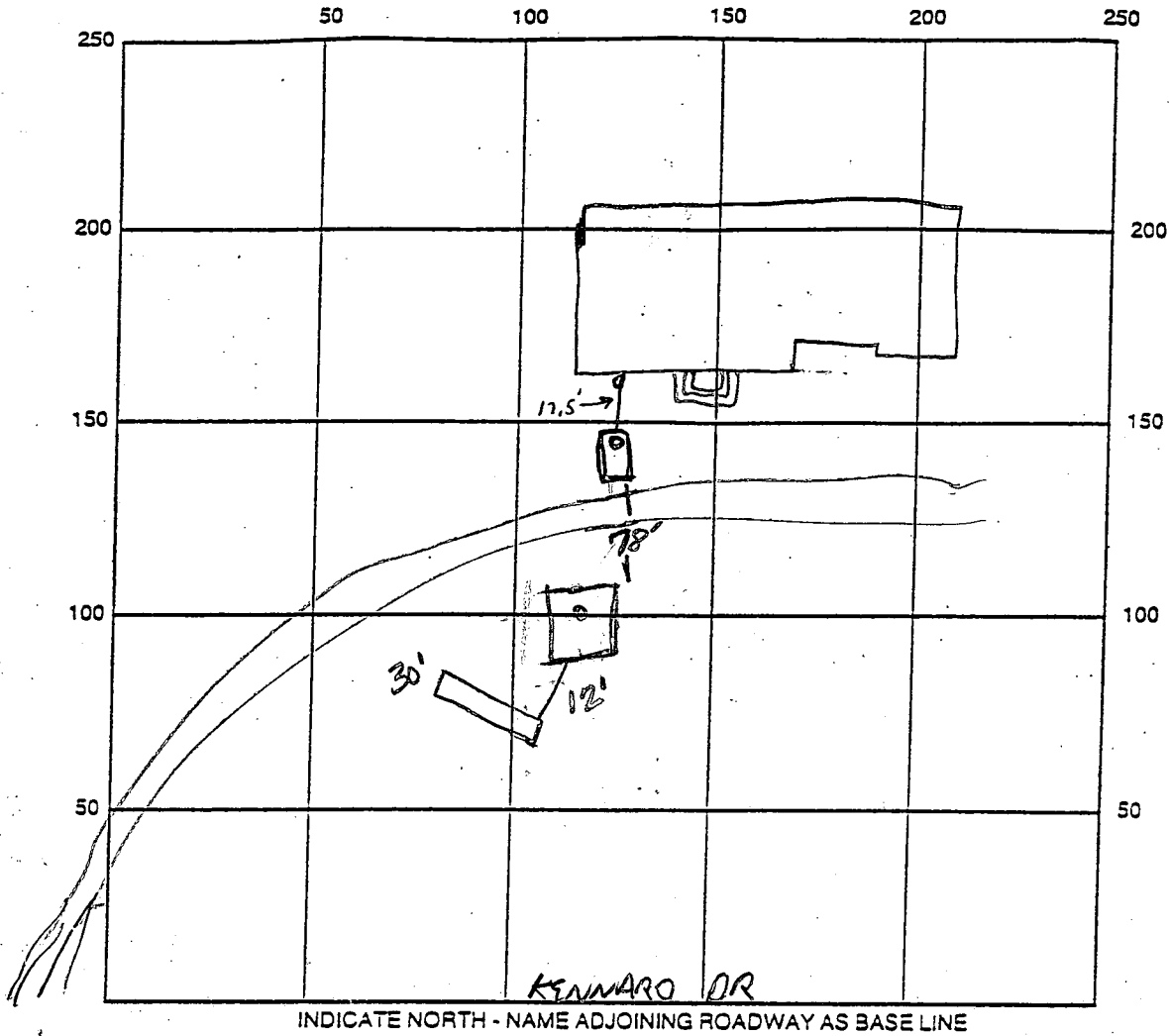
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

BUDG. PERMIT SIGNED AND RETURNED B00123419
20'x49' Deck 4/6/00

1
301577



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK - 1500 GAL CLEANOUTS 1 on drywell, 1 on tank, 1 at house

DISTRIBUTION BOX LEVEL N/A

DRAIN FIELD/TITLE DEPTH 12.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 4.5 FT.

EFFECTIVE GRAVEL DEPTH 8.0 FT. TOTAL LENGTH 30 FT.

NUMBER OF TRENCHES 1 ONE SIDEWALL/BOTTOM AREA 240 SQ. FT.

DRYWELL INSIDE DIAMETER 15x15 FT. EFFECTIVE DEPTH BELOW INLET 4.5 FT.

ABSORBENT AREA 720 SQ. FT.

REMARKS: 7/27/98 OK TO CONTINUE, SLEEVE UNDER DRIVE, COVER ST., COMPLETE DRYWELL & TRENCH

7.28.98 am OK to Stone trench and continue (KM)

7.28.98 pm OK to cover all work (KM)

DATE SYSTEM APPROVED 7.28.98 INSPECTOR Kim Maiste

Crystal Clear - Lot 19

7/10/98 10:00 met contractor @ site -
He was unable to install system
as specified - together @ site,
we determined that severe
grading (ie. CUTTING) occurred,
probably during creation of
S/D, that rendered ~3000' ∇
unusable. Perc hole (A) dug-
failed - showed evidence
of cut. Test hole (B) suitable
for installation of drywell
and trench, in order to
preserve future repair area

(bks)

APPLICATION

PERCOLATION TESTING

A 39577

P _____

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE/ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 313-2640

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

I HEREBY APPLY FOR THE NECESSARY TEST PRIOR TO APPLICATION FOR PERMIT TO CONSTRUCT (OR RECONSTRUCT) A SEWAGE DISPOSAL SYSTEM.

PROPERTY OWNER _____

ADDRESS _____ PHONE _____

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Crystal Clear LOT NO. 19

ROAD AND DESCRIPTION 13905 Kennard Drive

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 _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

REASONS FOR REJECTION OR HOLDING _____

PERCOLATION TEST PLAT/PRELIMINARY PLAT - TITLE OR I.D. # _____ DATE _____

SITE DEVELOPMENT PLAN/FINAL PLAT - TITLE OR I.D. # _____ DATE _____

THIS IS NOT A PERMIT

COUNTY #

SOIL PROFILE

0' **(A)**
 no topsoil layer
 org red brn cl 1m
 pale org brn sil 1m w/ >50% shale frags
 6.5' 7'

1' **(B)**
 topsoil
 red org brn cl 1m
 3.5' pale org brn sil 1m
 15.5' 20% shale frags

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Kennard Drive

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-10-98	A	7.0'D	Visual	- see profile			FAIL
	B	15.5'D	Visual	- see profile			OK

REMARKS _____

TESTED BY D. Soe ALSO PRESENT Jimmy Arnold

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

APPLICATION

PERCOLATION TESTING

A 39577

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

7-29-87 perc's ok
pending plat approval
JEN

P _____

DISTRICT 5TH

DATE 6-12-87

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 Kennard Warfield Jr. Crystal Clear General Partnership
S. B. V. Adams V. TALE

ADDRESS 14663 Tridelphia Rd Glenely 21737 PHONE 442-2337
670-9114

PROSPECTIVE BUYER N/A

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

LOT 19 Preliminary

SUBDIVISION Crystal Clear LOT NO. 24

ROAD AND DESCRIPTION West side Ivory Rd North side Tridelphia Rd
13905 Kennard Drive

BUDG. PERMIT SIGNED

AND RETURNED 7-31-87

Serial # Br 106984

TAX MAP 22 PARCEL # 533

SIZE OF LOT 3 1/2 acres TYPE BLDG. SFD - 4 Br
(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.

Madsen
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING for perc hole location and subdivision plat approval JEN

BUDG. PERMIT SIGNED

AND RETURNED 9/11/89

Serial # 28937 - SFD

5 Bedrooms with gut. sleep

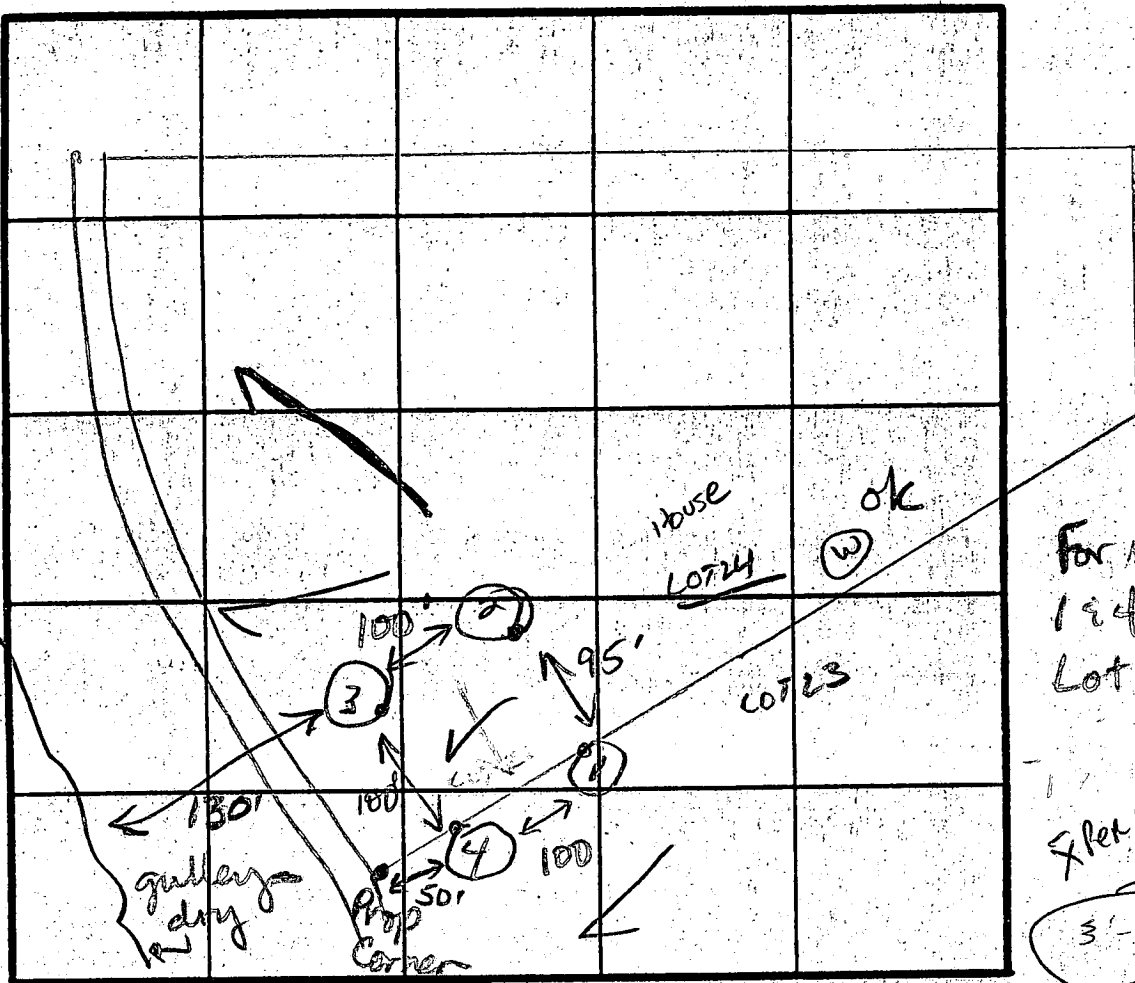
THIS IS NOT A PERMIT

1 Highest
 2
 3
 4 Lowest

SOIL PROFILE

0-4 Br si
 cl lm,
 trc gul

4-13.5 Rd sa
 si lm,
 trc broken
 rock frags
 < 25%
 Bottom



For perc
 1 & 4 see
 Lot 23

7 Perc's

3-8'

2

0-25 Br si
 cl lm,
 trc gul

25-12 Red-pink
 sa si
 lm,
 trace of
 decomposed
 saprolite
 < 5%
 12 Bottom

DATE	TEST NO.	DEPTH	PRE-WET		TEST 1" DROP		TIME	
			START	STOP	START	STOP		
7-29-87	3	3.5	2:57	3:02	3:02	3:08	5	
		13.5	Bottom (see profile)					
	2	12.0	(see profile)					OK
	1	11.5	sim to ex-profiles < 5 min perc @ 3 1/2, 6 1/2					
	4	12	7 min perc @ 3 1/2					

REMARKS All holes located per plat.

TYPE OF SOIL 0-4 Br si cl lm, 4-12 Rd sa si lm, < 25% rx frags

TESTED BY Gene E. Nadreau

ALSO PRESENT Olan Jr, Olan Sr, Mark

C1 9978

SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

COUNTY NUMBER A 39577

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 07/15/79

Depth of Well 200 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-88-0806

OWNER GOSWAMI LAND CO. last name K... first name TOWN G... SUBDIVISION SECTION LOT 19

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. Rows include Top Soil, Br Mica, Gray Mica.

GROUTING RECORD WELL HAS BEEN GROUTED (Y) (N) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 44 NO. OF POUNDS 446 GALLONS OF WATER 230 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 67 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 OPEN HOLE PL OT PLASTIC OTHER

DEPTH (nearest ft.) 40 72 200

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)

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 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 2 PUMPING RATE (gal. per min. to nearest gal.) 5 METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING 75 WHEN PUMPING 77 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) (+) above (-) below 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)

B 1 9175 SEQUENCE NO. (DP USE ONLY)
2 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

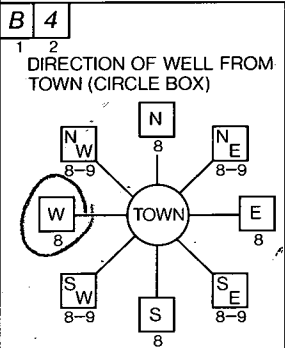
STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER
40-88-0800
70 fill in this form completely 79

Date Received (APA) 052689
OWNER INFORMATION
GOSHEN LAND CO
21006 BRINK CT
GAITHERSBURG MD 20879

B 3 LOCATION OF WELL R 44405
HOWARD COUNTY
CRYSTAL CLEAR SUBDIVISION
SECTION 19 LOT 19
GLEMELC NEAREST TOWN
MILES FROM TOWN 1 MI

DRILLER INFORMATION
George F. Easterday
L. Franklin Easterday, Inc.
3205 Brown Church Rd., Mt. Airy, Md. 21771
Signature: George F. Easterday Date: 5/24/89



B 4 13905 KENNARD DR
NEAR WHAT ROAD
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
34 250 37 DISTANCE FROM ROAD
ENTER FT OR MI FT

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)
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)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard A 39577
COUNTY NAME COUNTY NO.
STATE SIGNATURE DATE ISSUED INSERT S
C 70399 Craig Williams 8/13/90
43 48 CO SIGNATURE 49 EXP. DATE
NORTH GRID 521000 EAST GRID 0901000
50 55 57 63

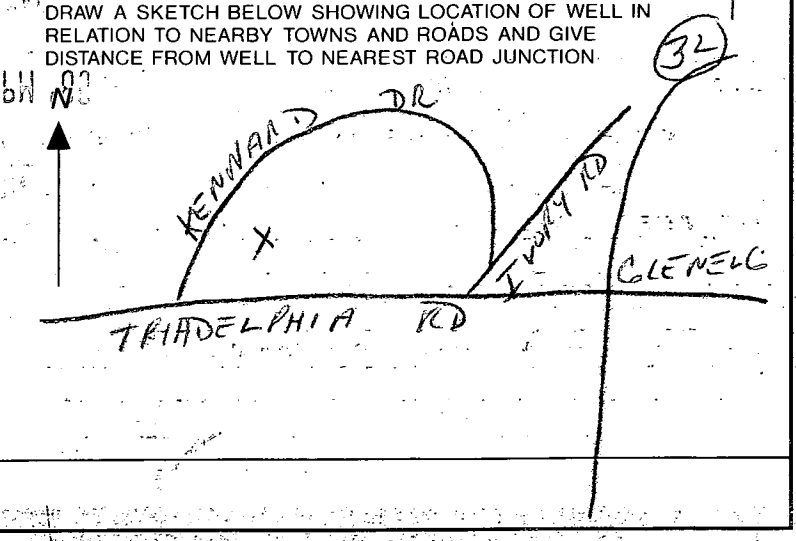
APPROXIMATE DEPTH OF WELL 200 FEET

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
other

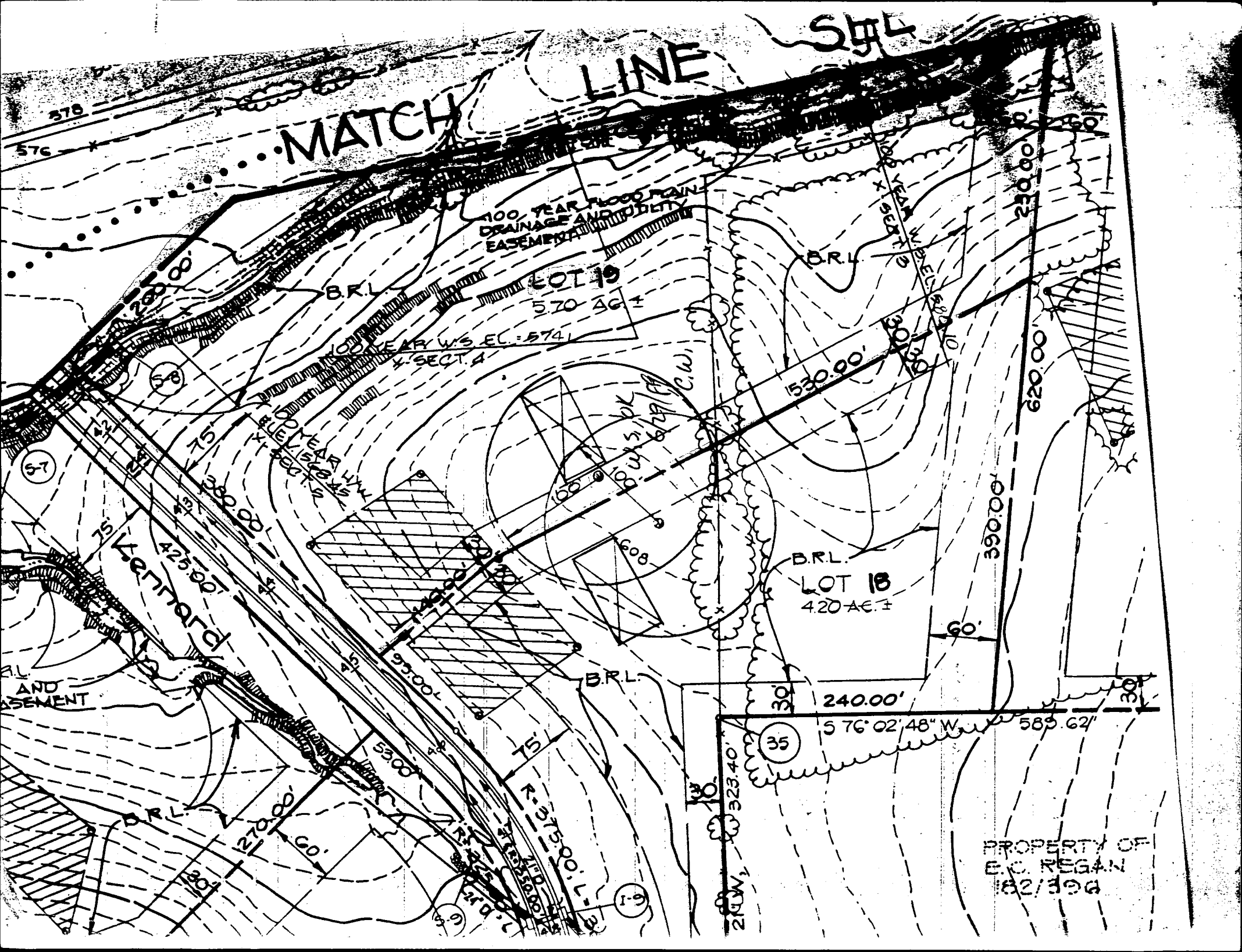
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
SOURCES OF DRILLING WATER
1. well
2.
3.
WRITE THE BOX NUMBER FROM THE MAP HERE
800 1
520 1
7/25/89 GROUT NOT OBS'D
44 BAGS
69' OPEN
84' CASING
25' CASING A.G.
NO MR
TAG TAG 7-2589

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
N THIS WELL WILL NOT REPLACE AN EXISTING WELL
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 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. 40-88-0800
SPECIAL CONDITIONS

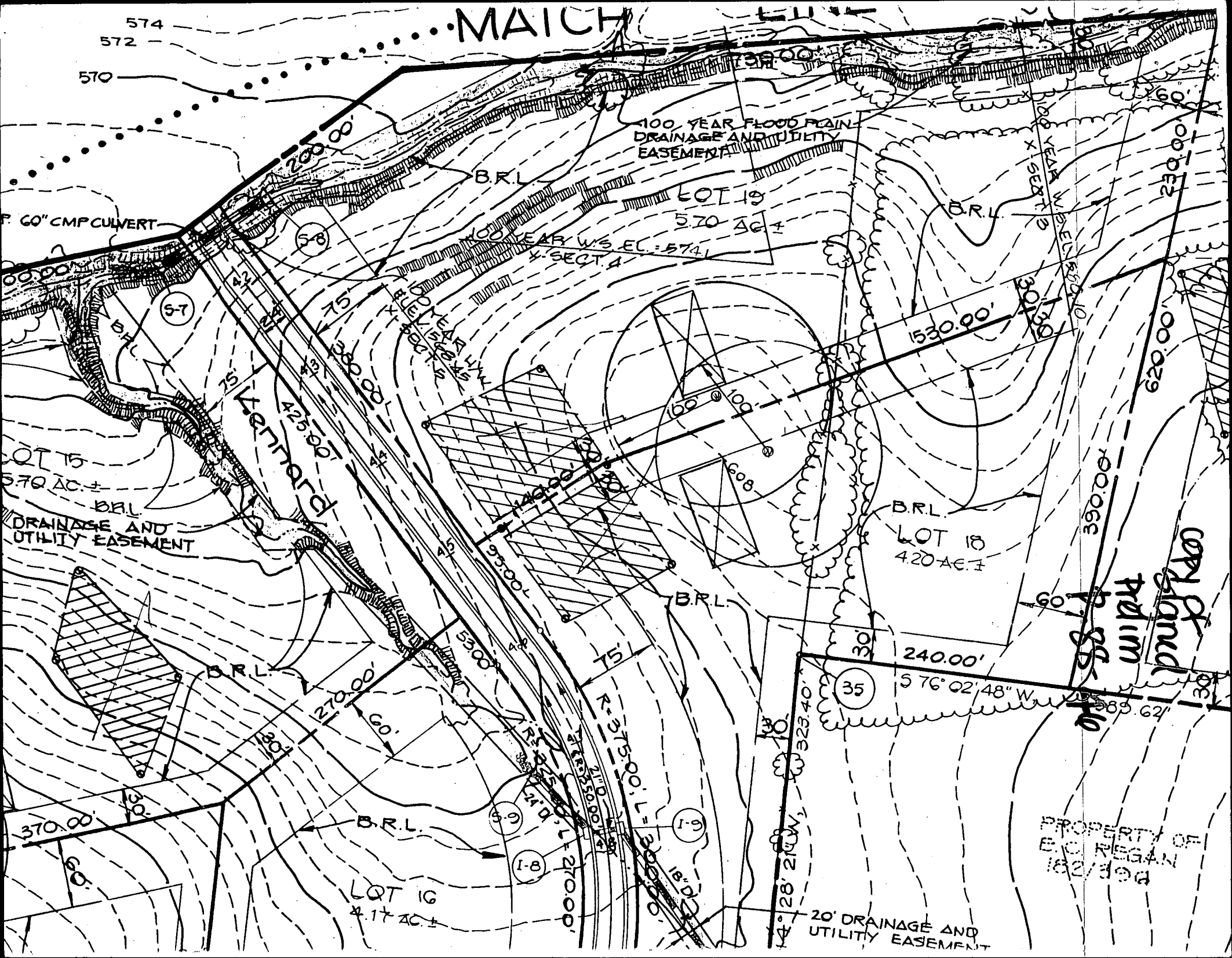
MATCH LINE



PROPERTY OF
E.C. REGAN
02/1994

...MATCH

574
572
570



100 YEAR FLOOD PLAIN
DRAINAGE AND UTILITY
EASEMENT

LOT 19
5.70 AC. ±

B.R.L.

B.R.L.

60" CMP CULVERT

57

58

570 AC. ±

100 YEAR W.S. EL. = 574.1
X-SECT. A

100 YEAR W.S. EL. = 570.0
X-SECT. B

1530.00'

425.00'

LOT 15

5.70 AC. ±

B.R.L.

DRAINAGE AND
UTILITY EASEMENT

B.R.L.

B.R.L.

LOT 18
4.20 AC. ±

390.00'

620.00'

60'

240.00'

35

15

15

R-C-1500' L=3000.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

W.D. = 2500.00'

323.40'

14° 28' 20" W

10'

10'

10'

10'

10'

10'

10'

10'

20' DRAINAGE AND
UTILITY EASEMENT

PROPERTY OF
E.C. HURLEY
182/11042

Prelim
of
Kao

LOT 16

4.17 AC. ±

1-8

1-9

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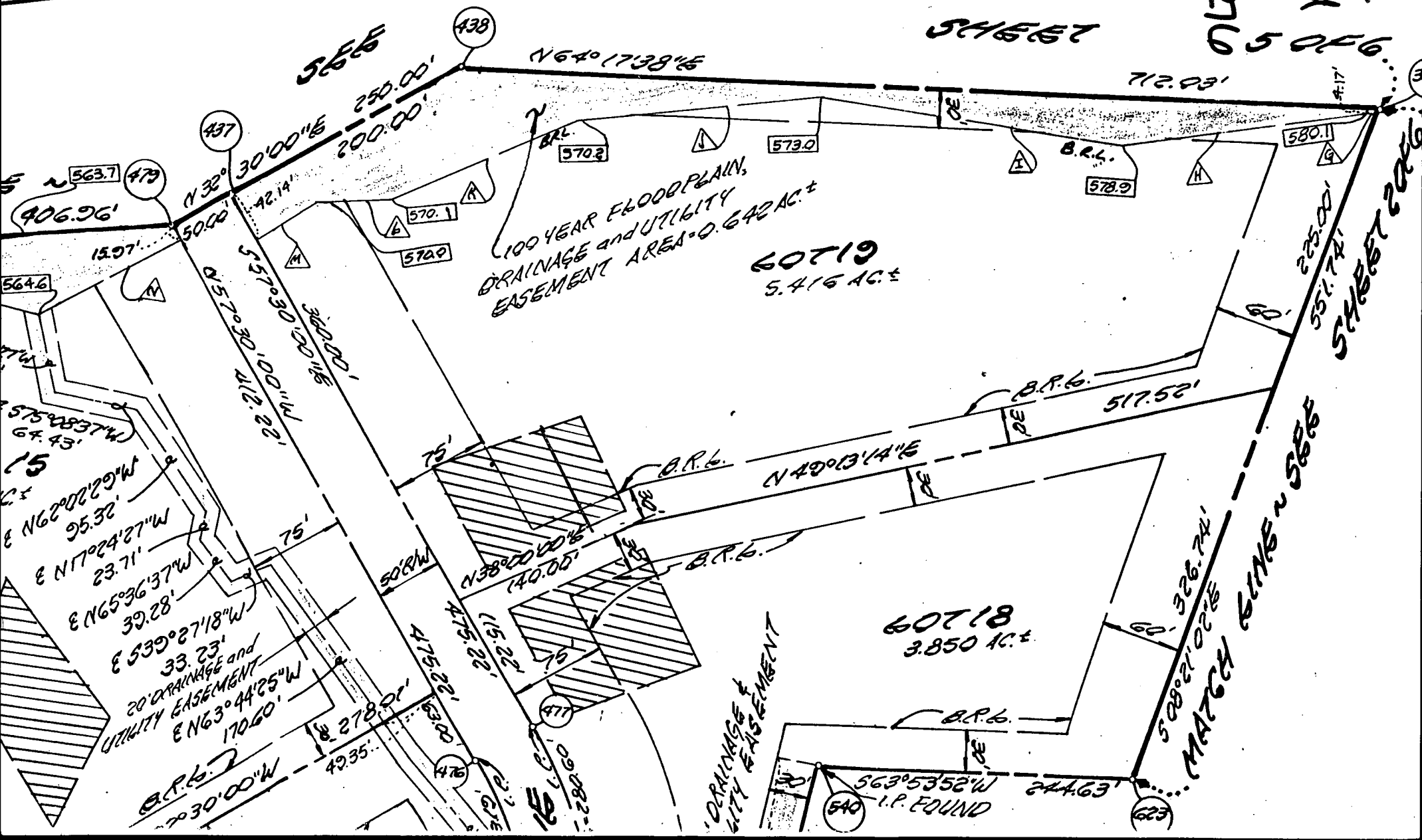
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COPY OF
Signed
Final
F 88-276
5056

54657



LOT 19

CRYSTAL CLEAR

Howard County, Maryland

Scale: 1"=200'

October 27, 1997

Plat #8446

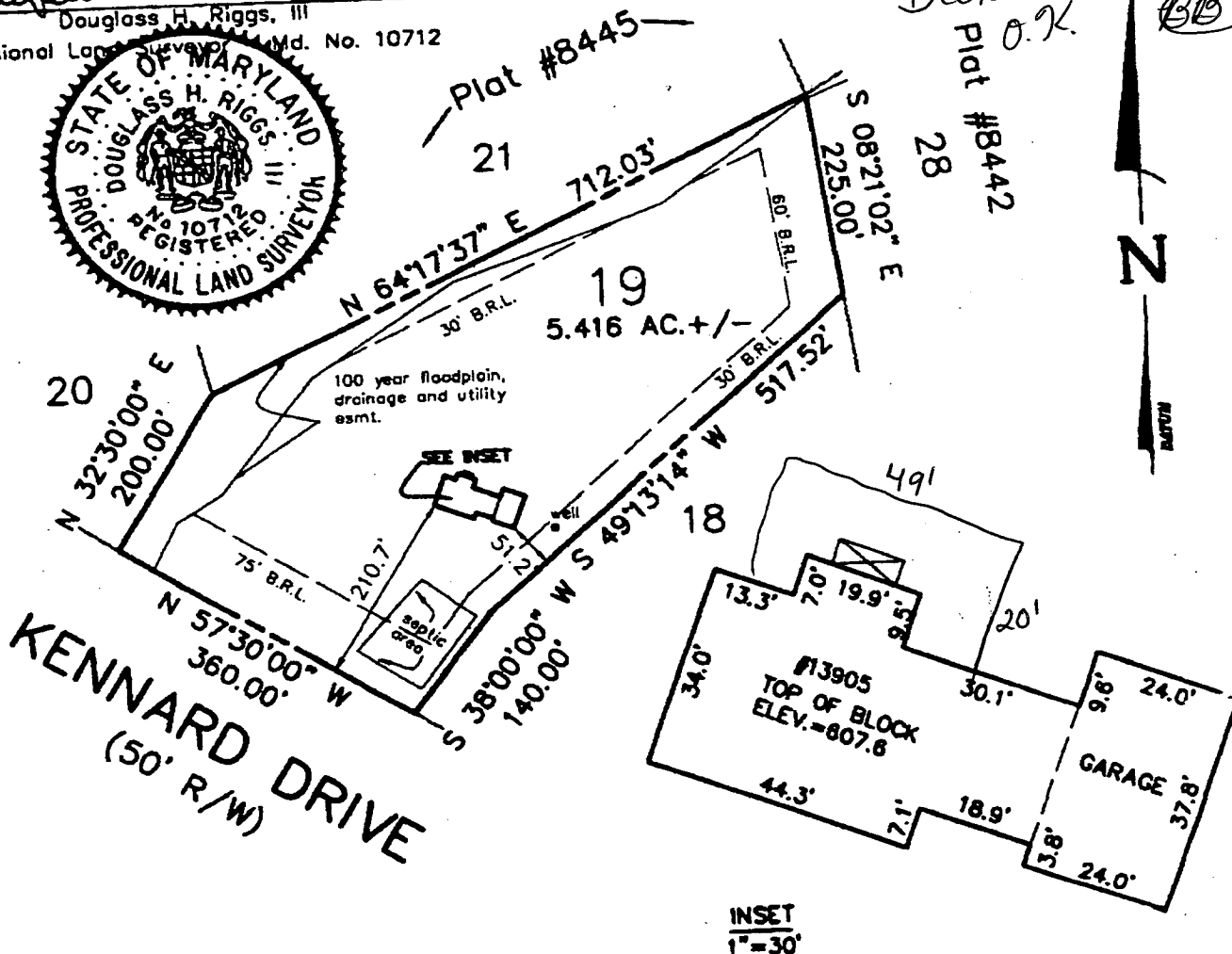
MACRIS, HENDRICKS and GLASCOCK, P.A.
ENGINEERS * PLANNERS * SURVEYORS
9220 WIGHTMAN ROAD GAITHERSBURG, MD. 20879
(301) 670-0840

I hereby certify that the survey shown hereon is correct and the property is as delineated on the above stated plat as recorded among the Land Records of Howard County, MD. The improvements were located by acceptable surveying practices made on October 24, 1997. Unless shown hereon, there are no visible encroachments. I further certify that no portion of the property lies within the designated 100 year flood plain as reflected on the Flood Insurance Rate Maps issued by the Federal Emergency Management Agency.

Douglas H. Riggs III
Douglas H. Riggs, III
Professional Land Surveyor Md. No. 10712



*4/6/00
Deck Addition
Plat O.K.
#8442
28*



Legend:
B.R.L. = Building Restriction Line

Note:
Existence of property corner markers not guaranteed by this survey, unless indicated hereon. No title report furnished. Not to be used for the construction of fences or other improvements. This plat is of benefit to a consumer only insofar as it is required by a lender or a title insurance company or its agent in connection with contemplated transfer, financing or re-financing. All distances shown are plus or minus 0.3 of a foot (±).

	WC	F
Field	ML	
Draft	BH	
Check	CK	
MH&G # 90-315		