

5-7-87
11 AM + 3:30 PM

05-389119

PERMIT

P 39310
A 37201
DISTRICT 5th
DATE 5/5/87
DATE SYSTEM APPROVED 5/8/87
INSPECTOR (BN)

SEWAGE DISPOSAL SYSTEM
MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

Laurel Plumbing & Heating IS PERMITTED TO INSTALL ALTER

ADDRESS _____ PHONE _____

SUBDIVISION Broadwater Estates ROAD 5687 Chandoly Drive LOT 8

PROPERTY OWNER Wayne Roberts

ADDRESS _____

IF GARBAGE GRINDER IS USED INCREASE SEPTIC TANK CAPACITY BY 50% AND ABSORPTION AREA BY 22%.

GARBAGE GRINDER? YES _____ NO X

SEPTIC TANK CAPACITY 1250 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 180 sq. ft. per bedroom. Trench to be 2 feet wide. Inlet 3 1/2 feet below original grade. Bottom maximum depth 9 feet below original grade. Effective area begins at 3 1/2 feet below original grade. 5 1/2 feet of stone below distribution pipe.

LOCATION - Place 1st trench 180 feet down right (496.04') lot line and 130 feet off the (496.04') lot line as seen when facing property from Chandoly Drive. Run trench(es) along contour towards the right (496.04') 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. *BN*

PLANS APPROVED BY Bert Nixon DATE 7/02/86

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.

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 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 PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES.

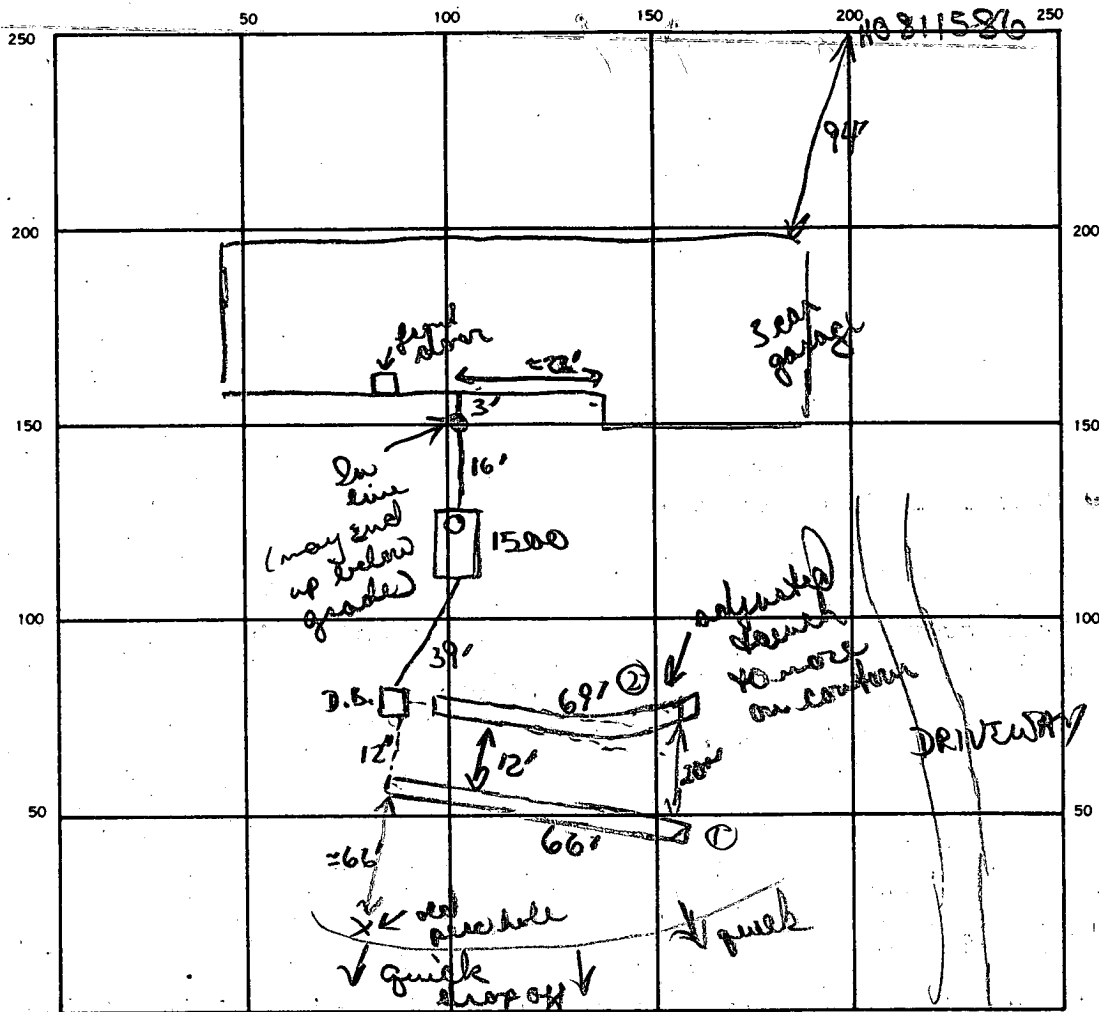
LDG. PERMIT SIGNED
AND RETURNED 7/6/87
Serial # 12857
Bluck

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

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

EH - 2-1186

A 37801



INDICATE NORTH. — NAME ADJOINING ROADWAY AS BASE LINE.

CHANDLER DR

SEPTIC TANK LEVEL 1500 gal CLEANOUTS 1 In line, 1 S.T.
 DISTRIBUTION BOX LEVEL ✓ w/ baffle
 DRAIN FIELD/TILE FIELD DEPTH 9' 9' FT. TRENCH WIDTH 2 FT. INLET DEPTH 3 1/2 FT.
 EFFECTIVE GRAVEL DEPTH 5 1/2 5 1/2 FT. TOTAL LENGTH 66' 69' FT.
 NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 369 + 380 SQ. FT.
 DRYWELL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.
 ABSORBENT AREA 749 SQ. FT.

180
 4
 720
 55) 720
 55
 770
 165
 5
 66
 55
 3300
 330
 68
 55
 345
 345
 779

REMARKS 5/7/87 OK to finish adding stone pipe paper to trench #1
OK to continue digging trench #2 + add stone pipe paper.
OK to finish all cement work.
5/7/87 OK to paper + cover trench #1. OK to finish digging + piping
trench #2. OK to cover from S.T. to trenches. Need S.T. c/o.
5/8/87 c/o installed. OK to paper trench #2 + cover.

DATE SYSTEM APPROVED 5/8/87 INSPECTOR B Nylon

JULY 31 1986
2:08 PM

APPLICATION

PERCOLATION TESTING

A 37201

P _____

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

DISTRICT _____

DATE 6-17-86

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 WAYNE H. & KATHLEEN L. ROBERTS

ADDRESS 9027 49TH AVE COLLEGE PARK, MD PHONE 474-1044
635-6723

PROSPECTIVE BUYER SAME

ADDRESS _____ PHONE _____

PROPERTY LOCATION: 50
SUBDIVISION BROADWATER ESTATES LOT NO. 8

ROAD AND DESCRIPTION 5687 CHANDOLY DRIVE
CLARKSVILLE, MD.

TAX MAP _____ PARCEL # _____

SIZE OF LOT 3 ACRES TYPE BLDG: SINGLE FAMILY
(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. Wayne H. Roberts
(SIGNATURE OF APPLICANT)

APPROVED BY B. Rodgers FOR Frencher DATE 6/19/86

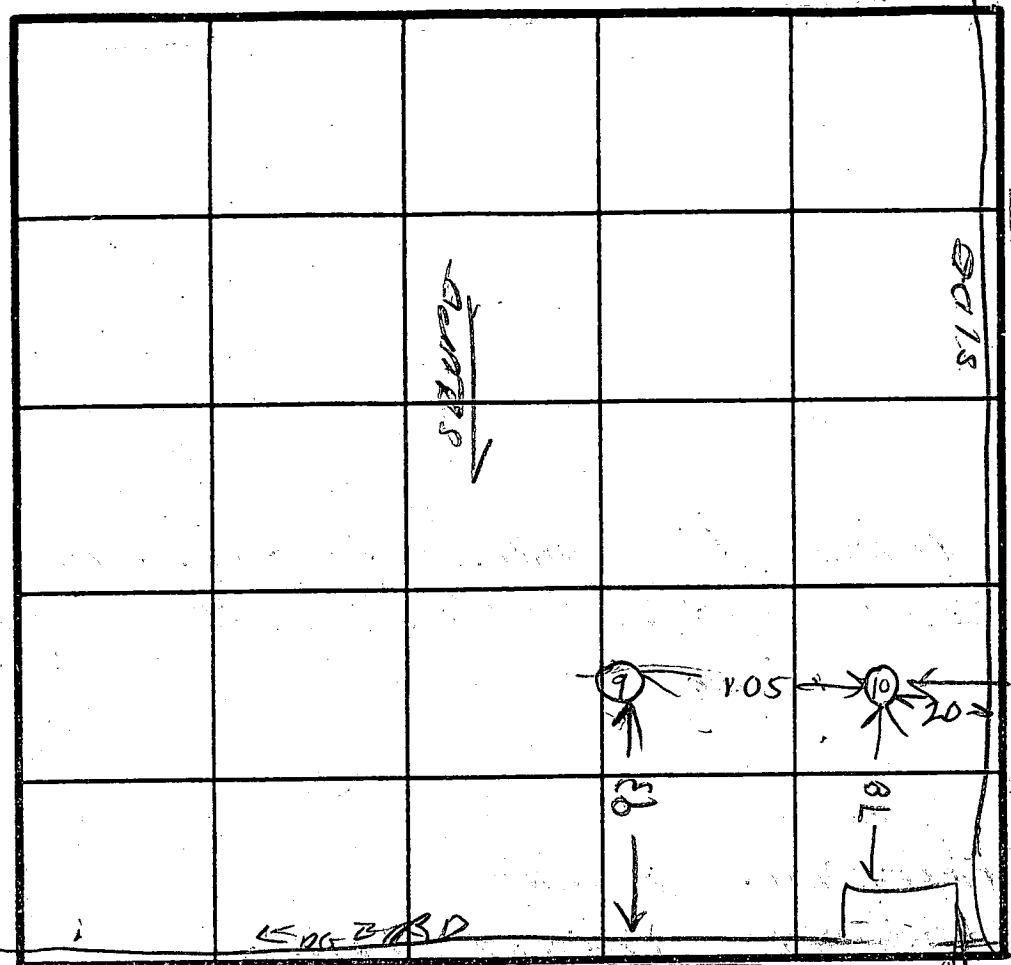
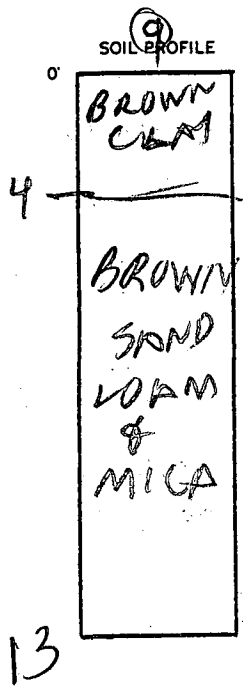
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING Petes Court 6/19/86

OK to shift Perc Area
BLDG. PERMIT SIGNED AND RETURNED 9/30/86
Smith & H.O.J. - P.M.L.
BLDG. PERMIT SIGNED AND RETURNED 8/29/86 Sabel
BP # 72539

THIS IS NOT A PERMIT



PAR 110

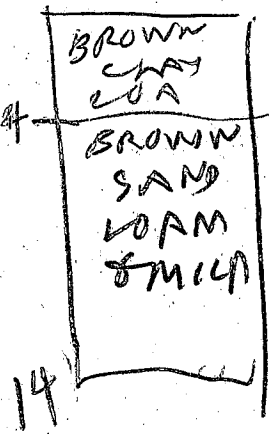
84

DEAD END

ROBERTS BUCHAN FARM

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

CHANDLER DRIVE



DATE	TEST NO.	DEPTH	PRE-WET		TEST-T DROP		TIME
			START	STOP	START	STOP	
6/18/88	95 9V	4.5 13	219 LOOK	224 0	224	231	7
6/18/88	105 10V	4.5 14	237 LOOK	240 S OK	240	244	

REMARKS _____

TYPE OF SOIL _____

TESTED BY B. HODGES

ALSO PRESENT EM ROBERTS
BRUCE BUCHAN

#8 BROADWATER ESTATES

3 BEDROOMS - 1000 GALLON TANK
4 BEDROOMS - 1250 GALLON TANK

DRY WELL - 120 square foot sidewall area per bedroom. Dry well EFFECTIVE
inlet maximum to be 4 feet below original grade and dry

well bottom to be 10 feet below original grade. Place the dry well 30
feet from the right lot line and 195 feet from the RIGHT REAR ^{ SUP ALONG RIGHT PROPERTY LINE } CORNER POINT
OF LOT - as seen when facing the lot from CHANDOLY DR. ~~W~~ PER PLATT.

OR IF DRY WELL + TRENCH USED - NEED:

- (1) 2 inspections of trench before and after stone installed.
 - (2) Run trenches on contour.
 - (3) 5' earth buffer between dry well and trench
-

Prel

APPLICATION

SEWAGE DISPOSAL TESTING

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

A 29005

P _____

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

DISTRICT 5th

See attached sheet for specs DATE 10/11/78

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 Arlie W. Broadwater

ADDRESS 5435 Broadwater Lane, Clarksville, Md. 21029 PHONE _____

PROPERTY LOCATION:

SUBDIVISION Broadwater Estates LOT NO. 8

ROAD AND DESCRIPTION off Broadwater Lane

SIZE OF LOT 3.0 acres m/1 TYPE BLDG. 3 or 4 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.

SIGNATURE OF APPLICANT /s/ Jack T. Gibson

APPROVED BY C. B. Straker *Per Well & for* FOR " " & Trench DATE 1/7/80

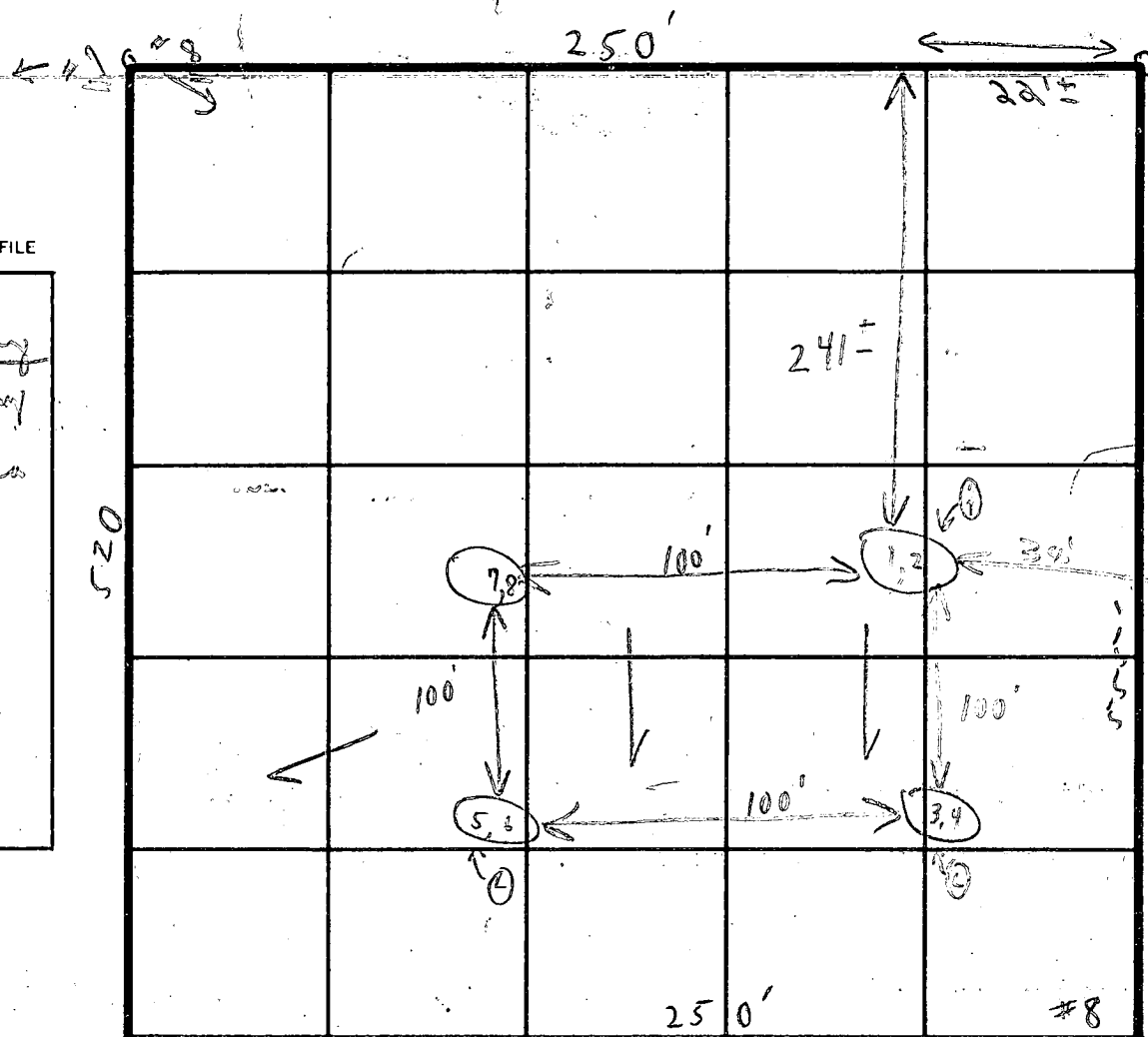
REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

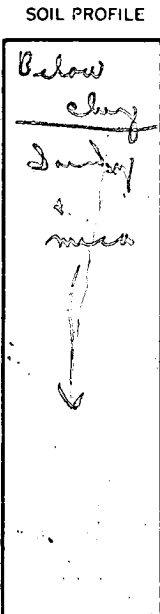
REASONS FOR REJECTION OR HOLDING _____

THIS IS NOT A PERMIT

#8



Field sketch
 Tests per stake
 Edge of ground
 To Lawrence Road
 County Road



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.
 Unimproved Road

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/20/78	1	4'	1:48	1:50	1:50	1:53	3 min
11/21/78	2 M.M.B.	10' 12'	12:31	12:33	12:33	12:34	1 min No tests per stake 11/20
	3	3 1/2'	2:04	2:06	2:06	2:10	4 min
11/21/78	4	10' 13'	12:33	12:35	12:35	12:40	No tests per stake 11/20
	5	4'	2:06	2:09	2:09	2:12	3 min
11/21/78	6 M.M.B.	9 1/2' 12 1/2'	12:37	12:41	12:41	12:45	4 min No tests per stake 11/20
	7	3 1/2'	2:10	2:12	2:12	2:13 1/2	1 1/2 min
11/21/78	8	10' 12'	12:43	12:44	12:46	12:50	4 min No tests per stake 11/20

REMARKS Tests in field { No small holes seen below

TYPE OF SOIL 11/20 + 11/21/78 M.M.B. { Tom Wilson 6 bags

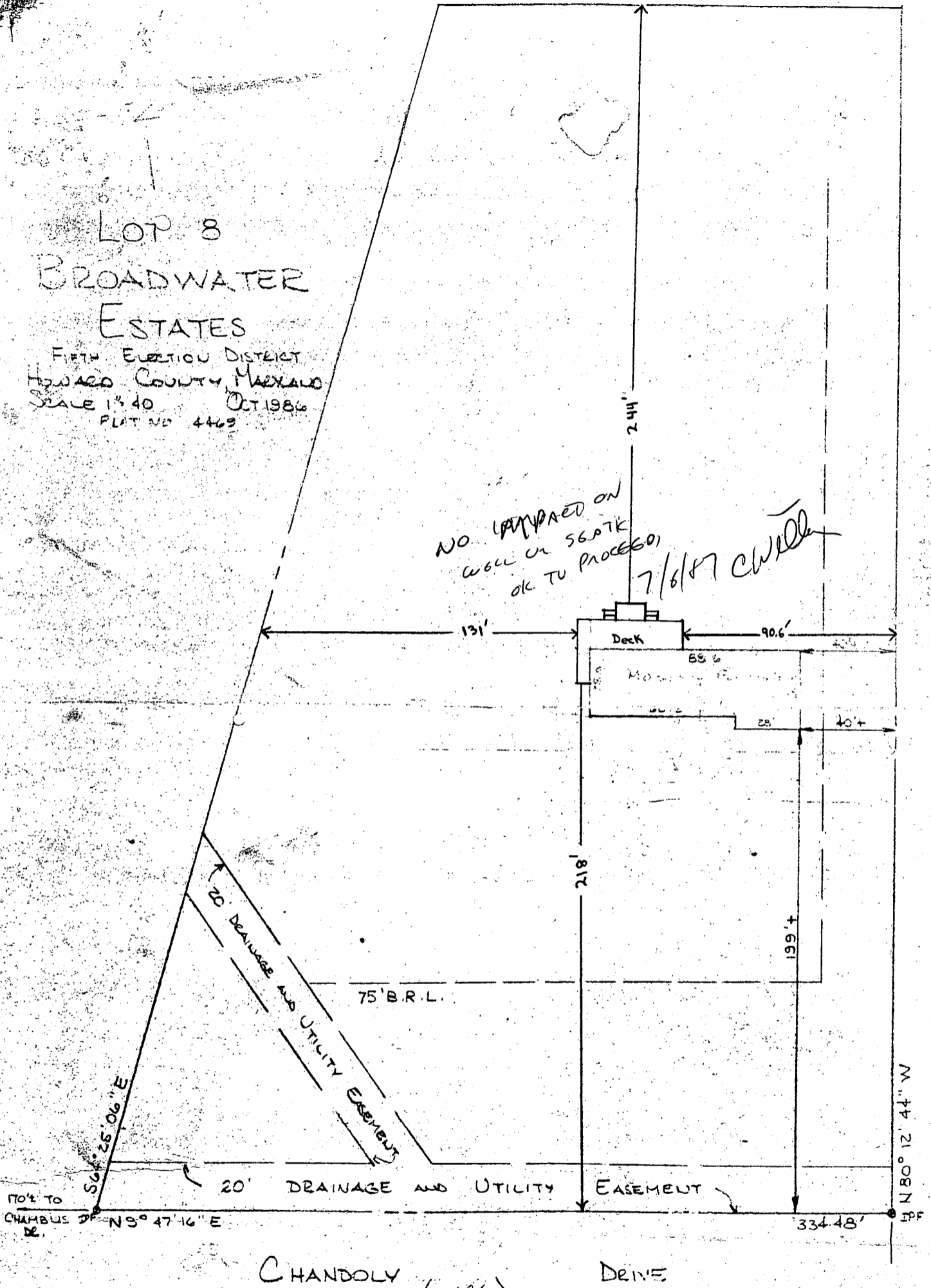
TESTED BY C. B. + M.M.B. ALSO PRESENT { Richard Wilson Papper Bill Hofstetter

w/lot & mos.

LOT 8
BROADWATER
ESTATES

FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE 1"=40' OCT. 1986
PLAT NO. 4469

NO. [REDACTED] ON
WELL OR 5607K
OK TO PROCEED
7/6/87 CWL



170' TO
CHAMBUS DR. N 9° 47' 16" E

CHANDOLY DRIVE (50' E/W)

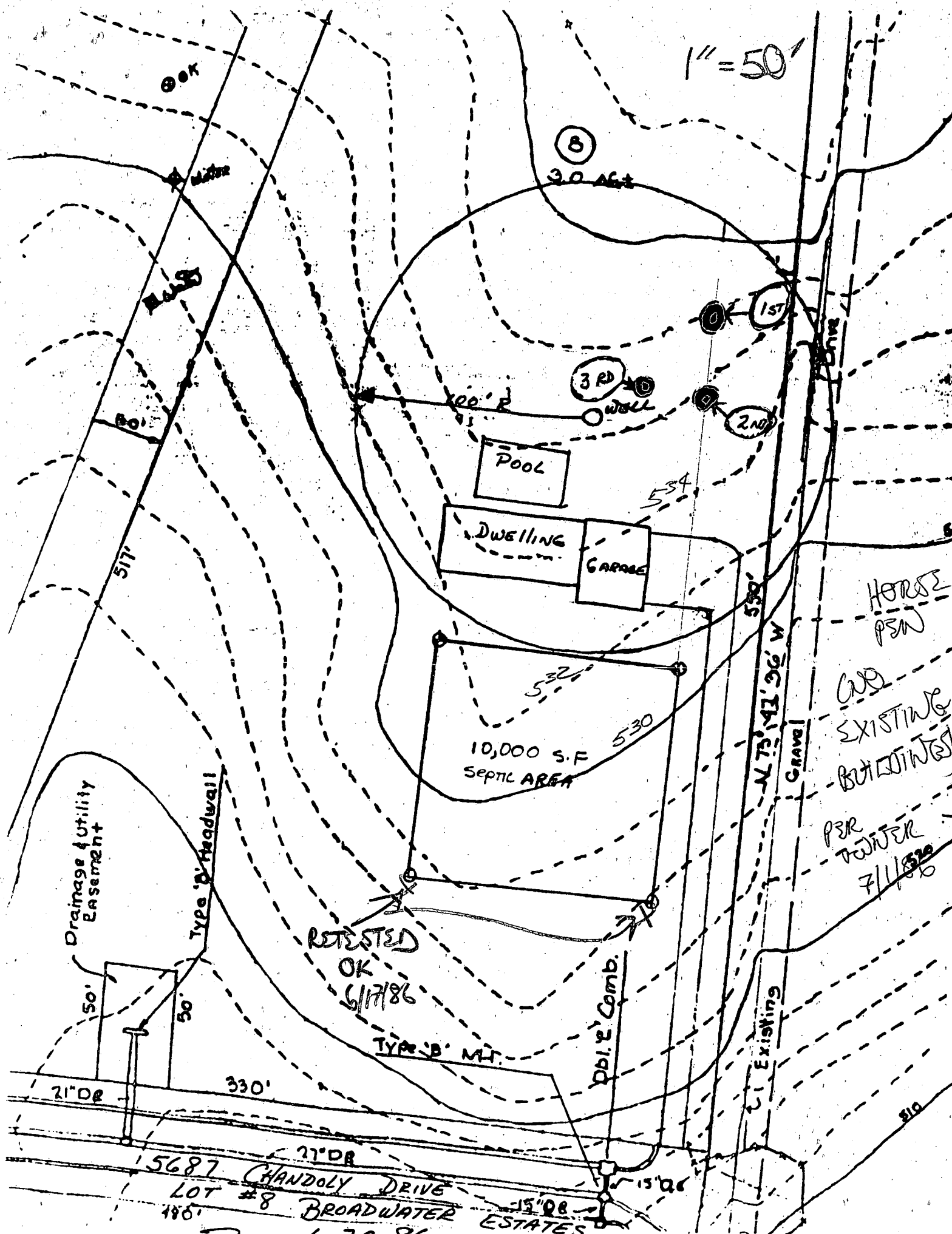
I hereby certify that a care has been made of the improvements hereon and that they are as shown and that there are no encroachments except as shown.

Jack Clark
Registered Land Surveyor - Md.



Prepared by
THE J.E. CLARK CO.
Lanham, Md. 9606025

1" = 50'



Drainage & Utility Easement

Type 'B' Headwall

RETESTED OK 6/17/86

Type 'B' Mt.

Pbl.' Comb.

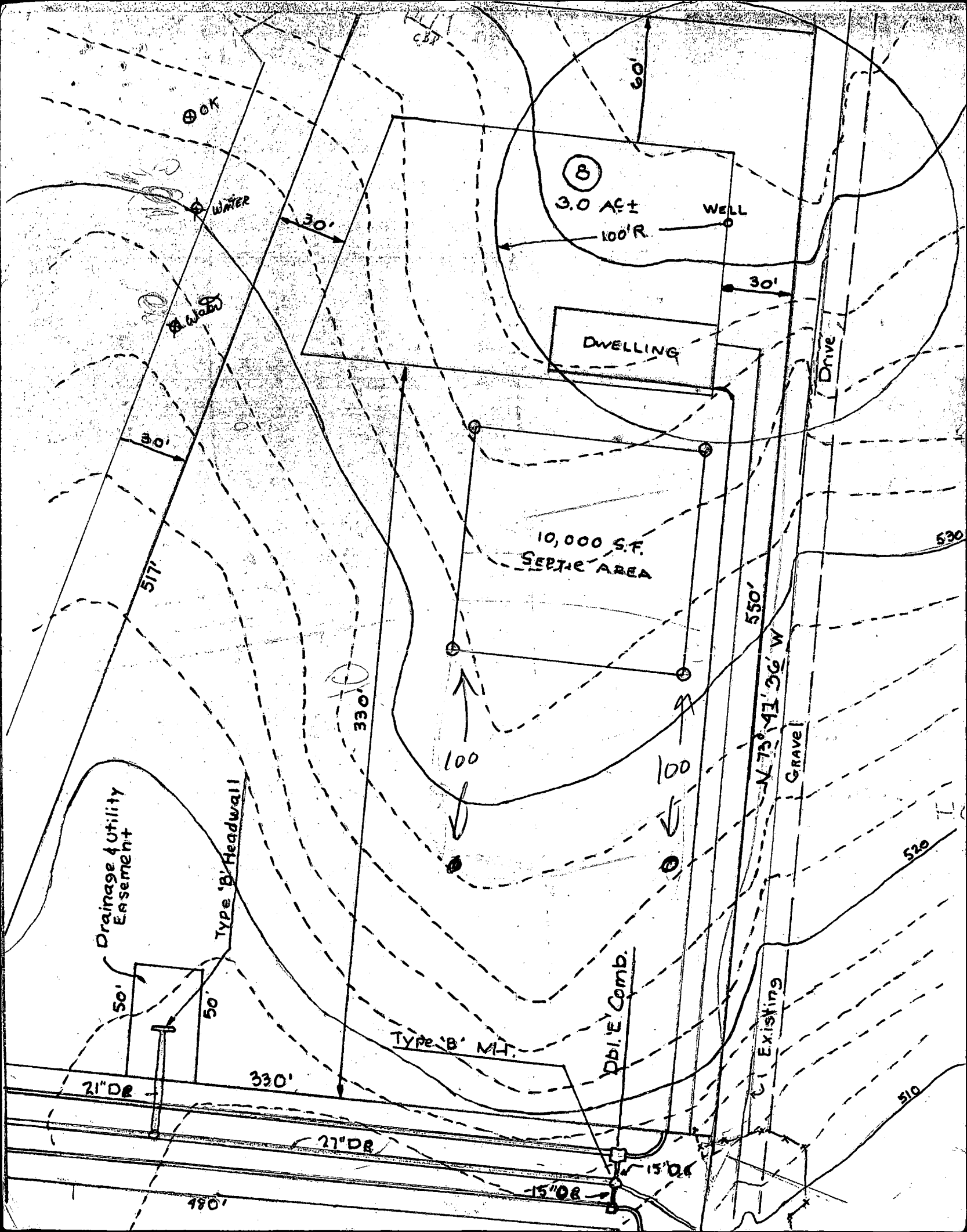
Existing

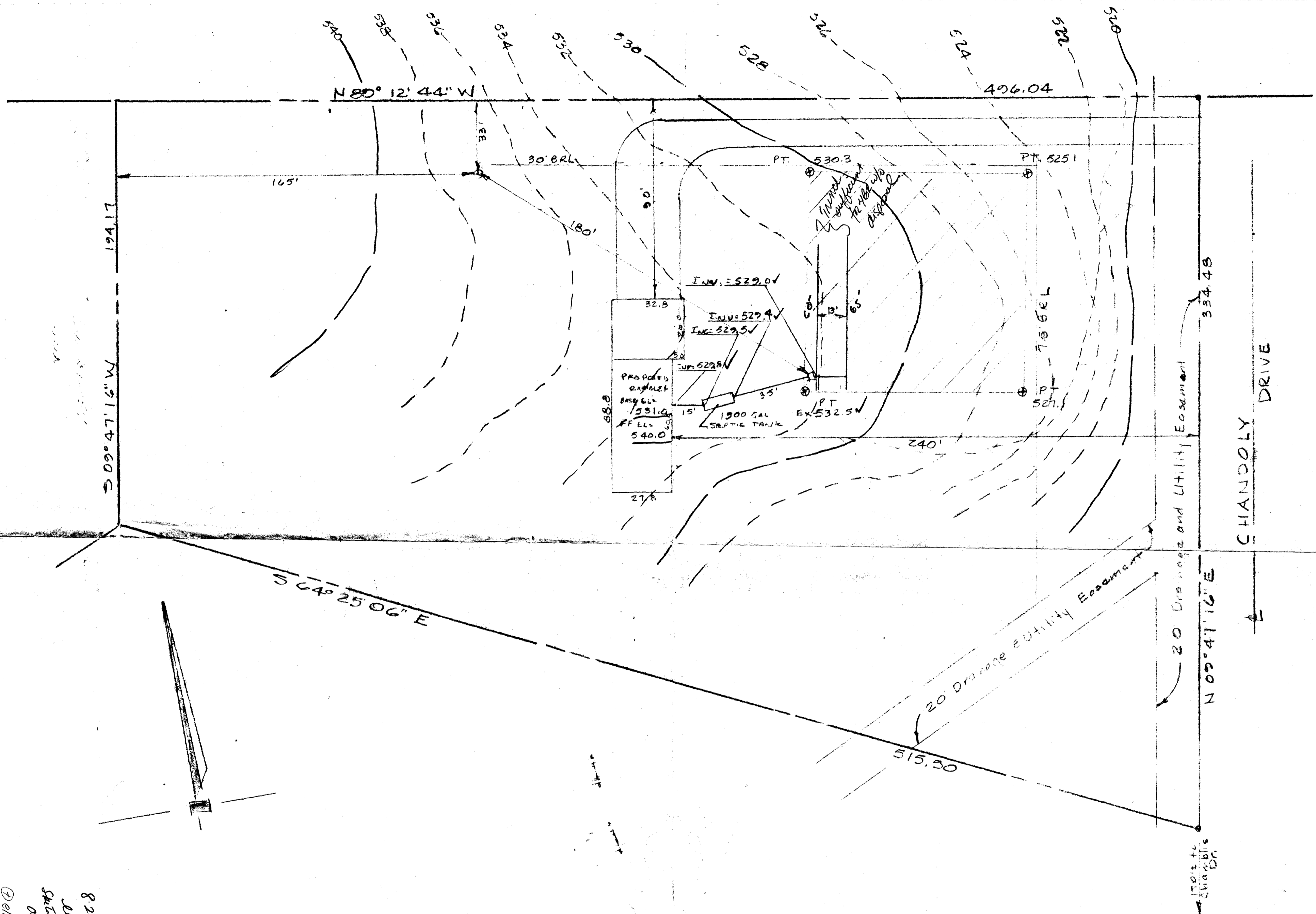
Gravel

HORSE PEN
 AND EXISTING BUT NOT TESTED
 PER TOWER 7/1/86

21' 0" DE 330'
 21' 0" DE
 15687 CHANDOLY DRIVE
 LOT #8 BROADWATER ESTATES
 148'
 15' 0" DE

ROBERTS 6-20-86





I CERTIFY THAT THE ABOVE MEASUREMENTS AND ELEVATIONS ARE ACTUAL & CORRECT FOR THIS PROPERTY

SIGNED: Judith Clark 8-25-86

**PLOT PLAN
LOT 8**
BROADWATER ESTATES
FIFTH ELECTION DISTRICT
HOWARD COUNTY, M.D.
Scale: 1" = 30' Aug 1986

Prepared By
THE J.E. CLARK CO
P.O. Box 147
LAUREL MD. 20707
725-3442

860903

BIDG. PERMITS SIGNED AND RETURNED 8-25-86 S.A.R.

OP # 72539

8-29-86
Elevations of
Spick plan to show
of 540.0

3-5-9
180-112
65-4

CHANDOLY DRIVE

334.48

20' Drainage and Utility Easement

20' Drainage Utility Easement

515.30

N 80° 12' 44" W

194.17

S 09° 47' 16" W

165'

30' BRL

180'

90'

INW = 529.01

INW = 529.4

INW = 529.51

INW = 529.8

PROPOSED
BASE GLE
AFFL
531.0
540.0

1900 GAL
SEPTIC TANK

PT 532.51

PT 530.3

PT 525.1

PT 527.1

496.04

240'

27.8

S 64° 25' 06" E

N 09° 47' 16" E

170' to
Chandoly Dr

7/2/86
7/2/86

A 37201

SUBDIVISION:

BROADWATER 2STATES
CHANDLER DRIVE

LOT NUMBER:

8

DRY WELL OR DRY WELL AND TRENCH

_____ sq. ft./bedroom

	<u>Septic Tank</u>	<u>Minimum Total square Feet</u>
3 bedroom	1000 gallon	_____
4 bedroom	1250 gallon	_____
5 bedroom	1500 gallon	_____

Inlet _____ feet below original grade.

Bottom maximum depth _____ feet below original grade.

Effective area begins at _____ feet below original grade.

NOTE: If trench is used to make up absorbent area, run the trench on level ground and leave a 5 foot earth buffer between dry well and trench. No trench is to exceed 100 feet in length. Trench inlet to be same as dry well, with _____ feet of stone below distribution pipe.

TRENCHES

180 sq. ft./bedroom

~~180~~

Trench to be 2 wide.

Inlet 3 1/2 feet below original grade.

Bottom maximum depth 9 feet below original grade.

Effective area begins at 3 1/2 feet below original grade.

5 1/2 feet of stone below distribution pipe.

no disposal
2-61' trenches
NO. BL = 4
(Panel Plumbing & Heating)

- NOTE:
- (1) No trench to exceed 100 feet in length.
 - (2) If more than one trench used, a distribution box is required.
 - (3) Trenches to be installed on level ground.
 - (4) Call for inspection of trench before gravel is installed.
 - (5) Provide 6"-8" diameter cleanout and cap to grade or above on septic tank and drywell.
 - (6) If a Garbage disposal is used, increase septic tank capacity by 50% and increase absorbant sidewall area by 22%.

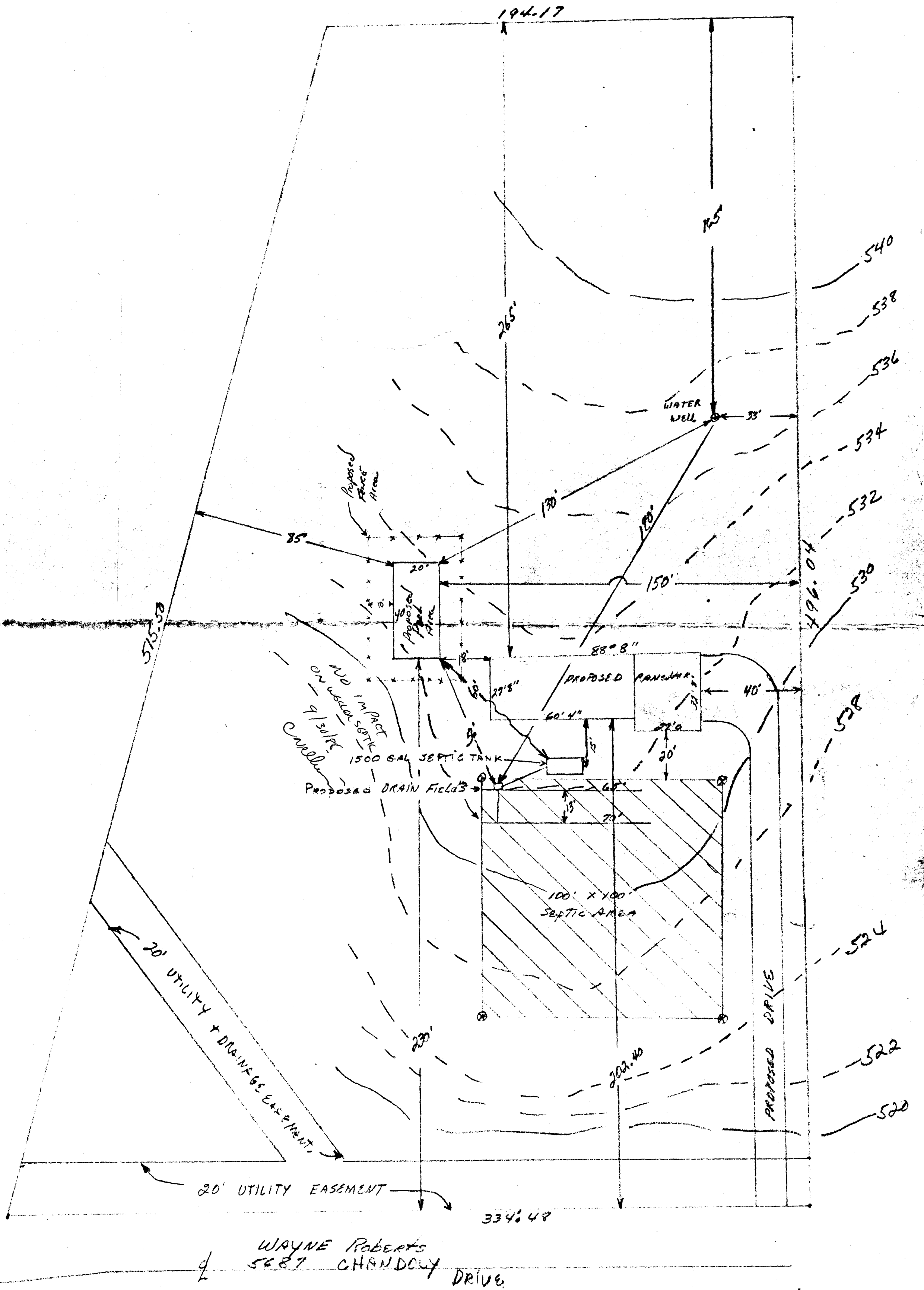
~~598-8885~~
498-8084

LOCATION: PLACE 1ST TRENCH 180 FT DOWN RIGHT (496.04) LOT LINE AND 130' OFF THE (996.04) LOT LINE AS SEEN WHEN FACING PROPERTY FROM CHANDLER DRIVE. RUN TRENCHES ALONG CONTOUR TOWARDS THE RIGHT (496.04) LOT LINE.

1/27

Contractor: L.C. PARKER FUEL CO. INC.
7470 TRAILROAD AVE
HARRISBURG, MD. 21077
761-2966

BROADWATER ESTATES
LOT 2
PLOT PLAN
FITZ ELECTION DISTRICT
HOWARD CO. MD.
SCALE - 1" = 30'



B 1 4472

SEQUENCE NO. (OEP USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

OEP PERMIT NUMBER

NO-81-1590

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

please print or type

fill in this form completely

Date Received

6/30/86

OWNER INFORMATION

Owner: DORRIS MAUNE, First Name: MAUNE

Street or RFD: 11704 COUNTRY LANE

Town: ARNHE, State: MD, Zip: 20716

DRILLER INFORMATION

Driller's Name: GEORGE F. KATEPDA, License No. 80

Firm Name: V. FORDMAN & KATEPDA, INC.

Address: 2015 BR. CH. RD. MT. AIRY, MD

Signature: [Signature], Date: 6/30/86

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 DEEPEINED 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 deepened (if available):

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

APPROP. PERMIT NUMBER: GAP

FORCE: RA, PERMIT NO.: NO-81-1590

SPECIAL CONDITIONS

B 3

LOCATION OF WELL R-37306

8 COUNTY: HOWARD, 21

23 SUBDIVISION: BROADWATER ESTATES, 42

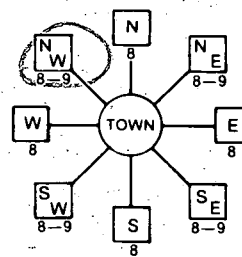
SECTION: 44, 46, LOT: 48, 50

52 NEAREST TOWN: CRANFORD, 71

MILES FROM TOWN (enter 0 if in town): 3 MI

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



11 NEAR WHAT ROAD: 5109 CRANFORD DR, 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): WEST

34 DISTANCE FROM ROAD: 23 FT, 37

ENTER FT or MI: 23 FT

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME: HOWARD, COUNTY NO.: A-37201

OEP SIGNATURE: [Signature], STATE HEALTH INSERT S

DATE ISSUED: 070286, CO-SIGNATURE: [Signature], EXP. DATE: 01/02/87

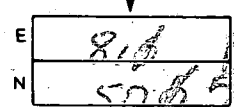
NORTH GRID: 505000, EAST GRID: 0811000

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

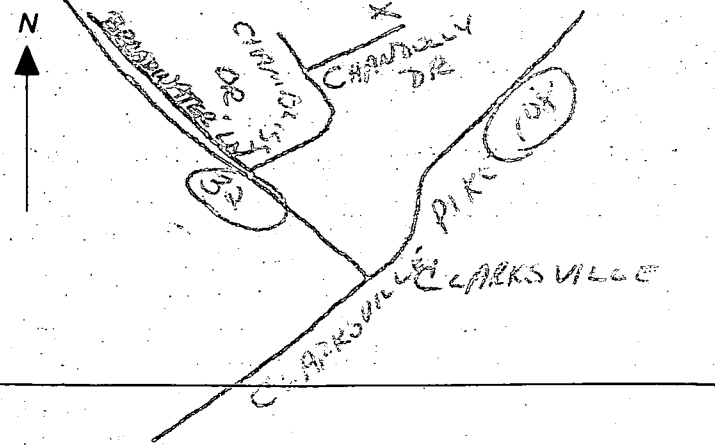
- 1. WELL
2.
3.

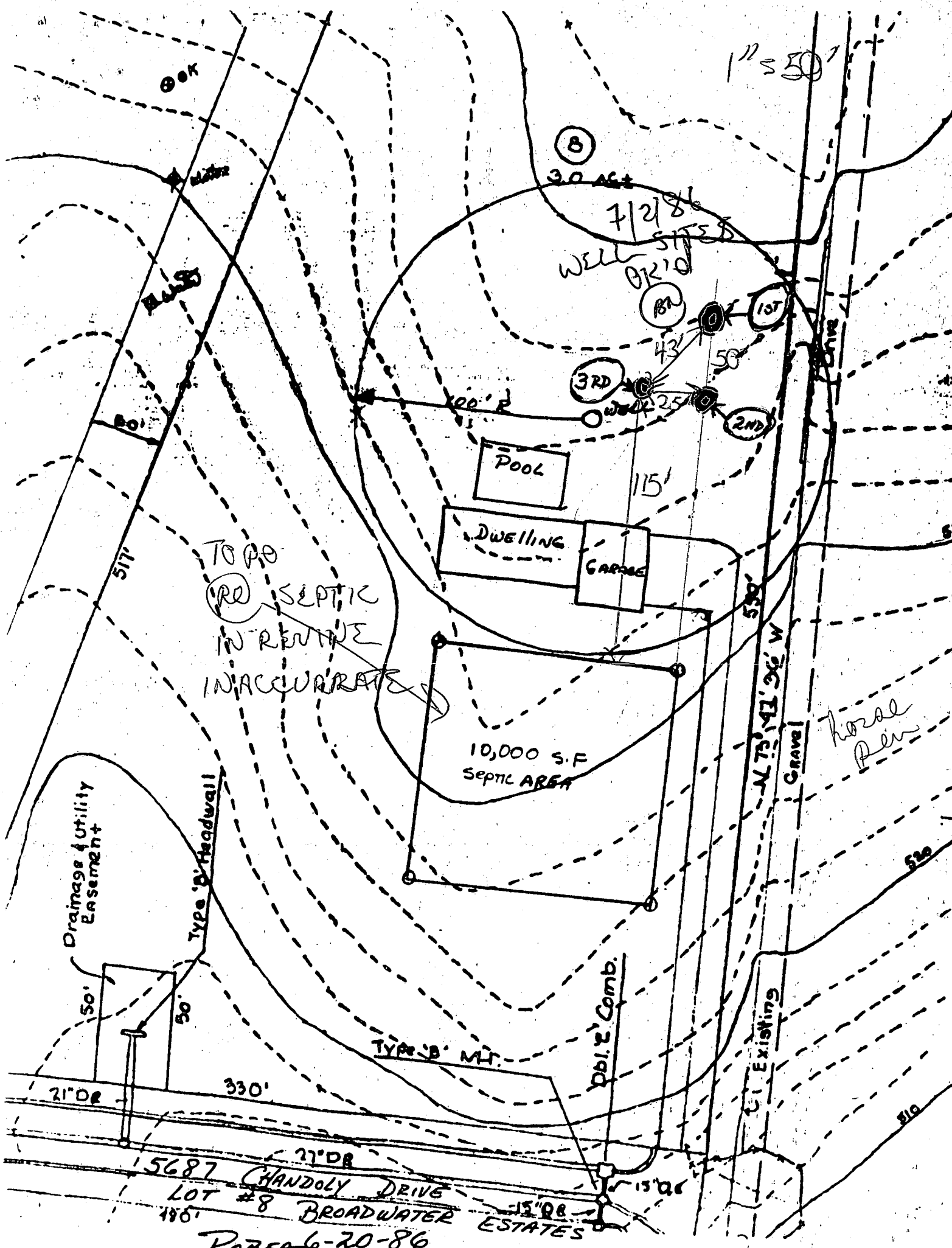
WRITE THE BOX NUMBER FROM THE MAP HERE



8-20-86 Well location OK
31 FT CASING
25' OPEN
8 BAGS CEMENT
S. AGLE

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





TO DO
 (R) SEPTIC
 IN REVERSE
 INACCURATE

Drainage & Utility
 Easement

Type B Headwall

Type B Mt.

Pub. E. Comb.

Existing

Gravel

Horse Pen

5687 CHANDOLY DRIVE
 LOT # 8 BROADWATER ESTATES

ROBERTS-20-86

C1 5215 SEQUENCE NO. (OEP USE ONLY)
 (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-37201

DATE Received [] [] [] [] [] [] DATE WELL COMPLETED 01 20 86
 Depth of Well 22 330 26 (TO NEAREST FOOT)
 PERMIT NO. FROM "PERMIT TO DRILL WELL" HA-R1-1536

OWNER CARSETS WAYDE
 STREET OR RFD CHANDLER DR. first name
 SUBDIVISION BROADWATER STATES SECTION TOWN CLARKSVILLE LOT 8

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	
TOP Soil	0	2	
Clay	2	3	
Shaley	3	12	
Mica schist	12	20	✓
Sand stone	20	45	
Mica	45	60	
Mica Flint	60	260	
Mixed	260	360	
Mica	360	362	✓
Quartz			
Mica	362	390	

GROUTING RECORD
 WELL HAS BEEN GROUTED (Circle Appropriate Box) YES (Y) NO (N)
 TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC)
 NO. OF BAGS 8 NO. OF POUNDS 800
 GALLONS OF WATER 40
 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 23 ft.

CASING RECORD
 casing types insert appropriate code below
 STEEL (ST) CONCRETE (CO) PLASTIC (PL) OTHER (OT)
 MAIN CASING TYPE ST
 Nominal diameter top (main) casing (nearest inch) 6
 Total depth of main casing (nearest foot) 31

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

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

DEPTH (nearest ft.)
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
 SLOT SIZE 1 2 3
 DIAMETER OF SCREEN (NEAREST INCH) 56 60

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.) 70 72
 WQ 74 75 76
 TELESCOPE CASING LOG INDICATOR OTHER DATA

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 35
 WHEN PUMPING 28
 TYPE OF PUMP USED (for test) 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) 31 35
 PUMP HORSE POWER 37 41
 PUMP COLUMN LENGTH (nearest ft.) 43 47
 CASING HEIGHT (circle appropriate box and enter casing height) + above } LAND SURFACE (nearest foot) 2
 - below }

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 x 50' Dist lot line
 Chandler DR.

CIRCLE APPROPRIATE LETTER
 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. 40
 DRILLERS: SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

RN 1729 ~~used thru~~ 8-28-86
8:00

Page _____ of _____
Date _____

Review 829-86 ote Saffel

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-1586
Location of property (road) CHANDLER DR.
Subdivision BROADWATER ESTATES Lot 8 Block _____ Plat _____ Sec. _____
Well Driller GEORGE EASTERDAY Owner ROBERTS, WAYNE

Depth of well 380 30 GPM
Distance of measuring point (M.P.) above ground 2 FT
Static water level (S.W.L.) below M.P. 35 FT

I. High rate pumping -- reservoir drawdown
Time pump started 7:30 Pumping rate 10 G.P.M.
Total time _____ to reach pumping water level _____ 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 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:30	35 FT	6 second		10 G.P.M.
7:45	57 FT	6 Sec	Pump sat	10 G.P.M.
8:00	74 FT	6 Sec		10 G.P.M.
8:15	88 FT	6 Sec		10
8:30	88 FT	6 Sec	AT 200 FT	10
8:45	88 FT	6 Sec		10
9:00	88 FT	6 Sec		10
9:15	88 FT	6 Sec		10
9:30	88 FT	6 Sec		10
9:45	88 FT	6 Sec		10
10:00	88 FT	6 Sec		10
10:15	88 FT	6 Sec		10
10:30	89 FT	6 Sec		10

George Easterday