

7/7/89
PM
2:40 AM
P.M.

05-408059

File
N

7/10 O.P.C.O.
C.B.O.

PERMIT

P 44398

SEWAGE DISPOSAL SYSTEM

A 37383

MARYLAND STATE DEPARTMENT OF HEALTH

DISTRICT 5th

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

DATE 5/25/89

DATE SYSTEM APPROVED 7/10/89

INSPECTOR C.B.O.

J. S. Construction IS PERMITTED TO INSTALL ALTER

ADDRESS 37 L. Street, S.E., Washington, D.C. 20003 PHONE 202-333-5454

SUBDIVISION Dunfarmin Estates ROAD 5515 Smallwood Court LOT 12

PROPERTY OWNER James Silverman Builders

ADDRESS _____

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

GARBAGE GRINDER? YES NO

SEPTIC TANK CAPACITY 2000 GALLONS NUMBER OF BEDROOMS 4

TRENCHES - 220 sq. ft. per bedroom with garbage disposal. Trench to be 2 feet wide.
Inlet 4 feet below original grade. Bottom maximum depth 8.5 feet below original grade. Effective area begins at 4 feet below original grade.
4.5 feet of stone below distribution pipe.

LOCATION- Start the first trench 140 feet from the rear lot line and 270 feet from the left lot line as seen when facing the lot from Smallwood Court. Run trenches on contour toward the right side of property.

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

PLANS APPROVED BY Sid Abel DATE 4/25/89

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

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 TRENCHES ARE USED CALL FOR INSPECTION BEFORE AND AFTER PLACING GRAVEL IN TRENCHES)

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

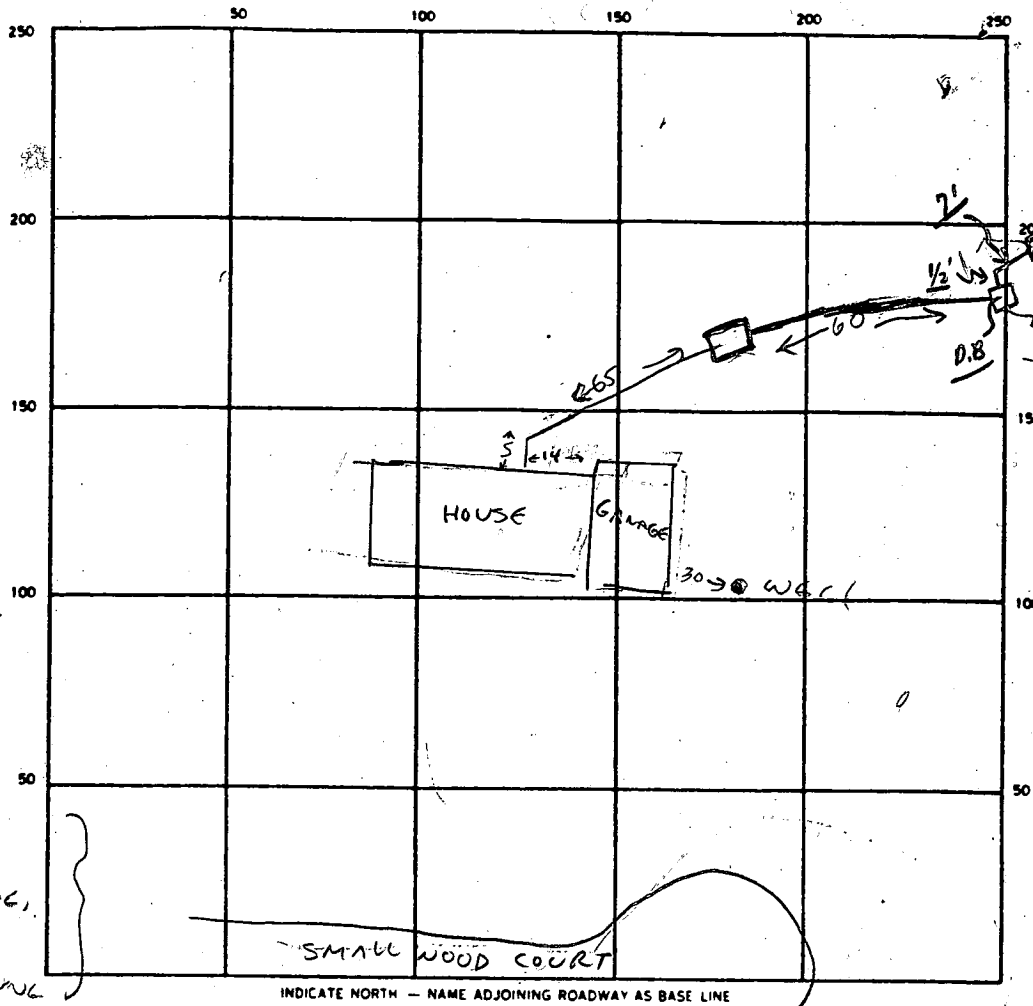
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER. CAST IRON, CONCRETE OR TERRA COTTA OR PVC OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET, MANHOLE TO GRADE REQUIRED

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

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

A 37383



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

W.P.I. - 7/7/89 CW
 PITLESS
 AT 3' BELOW GRADE.
 CATONSVILLE PLUMBING
 NO PERMIT
 NO 10 SP. REQUEST

SEPTIC TANK LEVEL CLEANOUTS S.T. BUCKET

DISTRIBUTION BOX LEVEL (Baffle is in)

DRAIN FIELD/TILE FIELD DEPTH 8 1/2 FT. TRENCH WIDTH 2 FT. INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 9 1/2' avg. 4.5 + 1 FT. TOTAL LENGTH 100' @ 104' } 204 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL ~~AREA~~ AREA 918 ⁺ SQ. FT.

DRYWELL INSIDE DIAMETER - FT. EFFECTIVE DEPTH BELOW INLET - FT.

ABSORBENT AREA 918 ⁺ SQ. FT.

REMARKS 7/7/89 COMPLETE UPPER TRENCH AND ADD GRAVEL.
DIG LOWER TRENCH AND PLACE SUFFICIENT GRAVEL TO PREVENT COLLAPSE. C.W.
7/10/89 - CHECKED FOUND #2 TRENCH - deep stone; Partial -
7/10 P.M. OK TO COVER - FINAL.

NOTE: 7/7/89 W.P.I. - PARTIAL BY C.W. SEE ABOVE LEFT SIDE COMMENTS.

DATE SYSTEM APPROVED 7/10/89 INSPECTOR Charles Bryan Stricker

SUBDIVISION: Dunferrin EST.

LOT NUMBER: 12

DRY WELL OR DRY WELL AND TRENCH

	<u>Septic Tank</u>	<u>Minimum Total Square Feet</u>
3 bedroom	1000 gallon	_____ sq. ft./bedroom
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

Trench to be 2 wide. 180 sq. ft./bedroom
220 sq ft/bedroom with G.D.
4BA w/disposal

Inlet 4 feet below original grade.

Bottom maximum depth 8.5 feet below original grade.

Effective area begins at 4 feet below original grade.

4.5 feet of stone below distribution pipe.

- 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 absorbent sidewall area by 22%.

LOCATION: START THE FIRST TRENCH 10 FT FROM THE REAR LOT LINE
AND 270 FT FROM THE LEFT LOT LINE AS SEEN WHEN FACING THE
LOT FROM SMALLWOOD CT. RUN TRENCHES ON CONTOUR TOWARD THE
RIGHT SIDE OF PROPERTY. 4-25-89 SLM

APPLICATION

A 37389

SEWAGE DISPOSAL TESTING

P. _____

STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

HOWARD COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 476, ELLICOTT CITY, MARYLAND 21043
TELEPHONE: 465-5000, EXT. 356

DISTRICT 5

DATE 7-14-86

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 James Silverman Builders. 340-2410
S. Freeman Nichols & James S. Nichols

ADDRESS 13270 Truadelphia Mill Road PHONE 531-2505
Clarksville

PROPERTY LOCATION: FINAL LOT 12
SUBDIVISION Dunfarmen LOT NO. 13

ROAD AND DESCRIPTION Fronting new street, off Ten Oaks Road
(Macadam) 5515 Smallwood Ct.

SIZE OF LOT 3 AC TYPE BLDG. _____
NUMBER OF BEDROOMS _____

IF NOT SINGLE RESIDENCE DESCRIBE _____

THE SYSTEM INSTALLED UNDER THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC FACILITIES BECOME AVAILABLE.

SIGNATURE OF APPLICANT James S. Nichols

APPROVED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

REJECTED BY _____ FOR _____ DATE _____
(KIND OF SYSTEM)

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 8-28-86 Rec. SATISFACTORY, HOLD FOR SUBDIVISION PLAT.

S. Amel

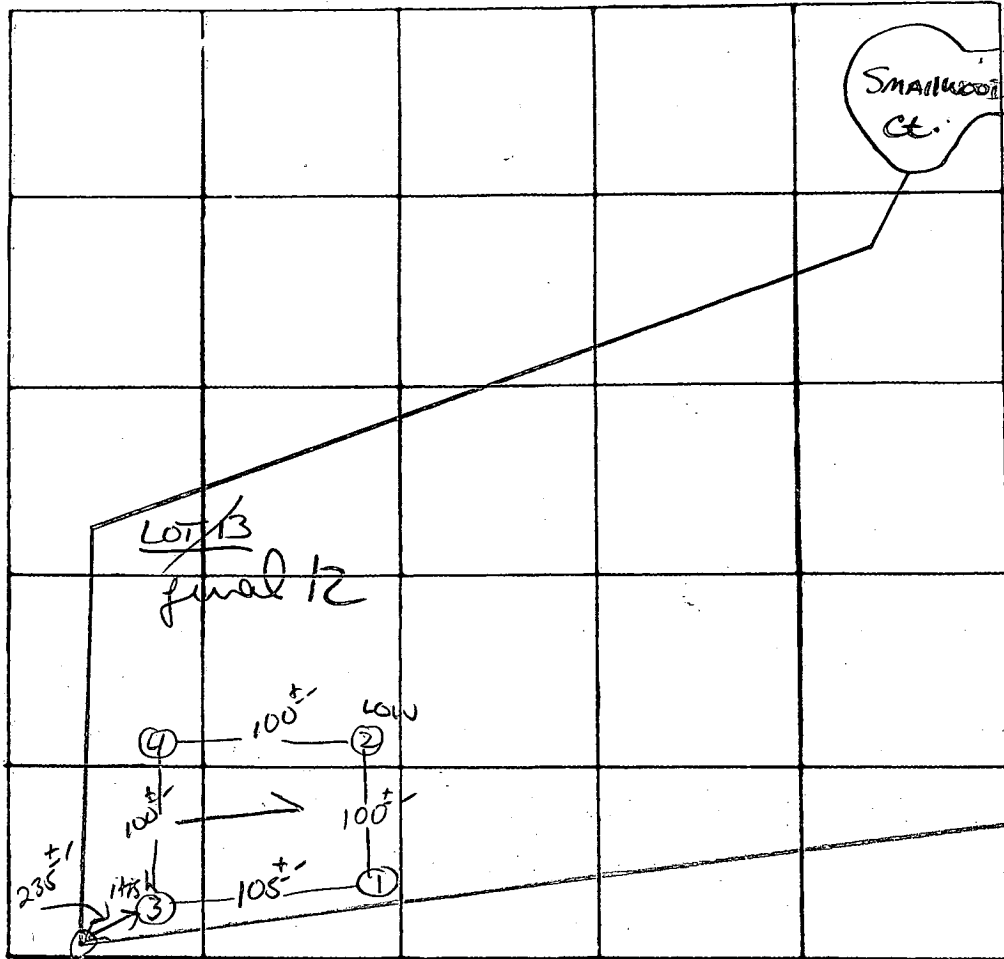
BLDG. PERMIT SIGNED AND RETURNED 4-25-89

BP25114
SA

THIS IS NOT A PERMIT

③ ④
① ②

AP
STRONG BR
SILT LOAM
210% FRAGS
9-12% CLAY
4"
RED BROWN
SILT LOAM
10-15%
FRAGMENTS
Highly
micaceous



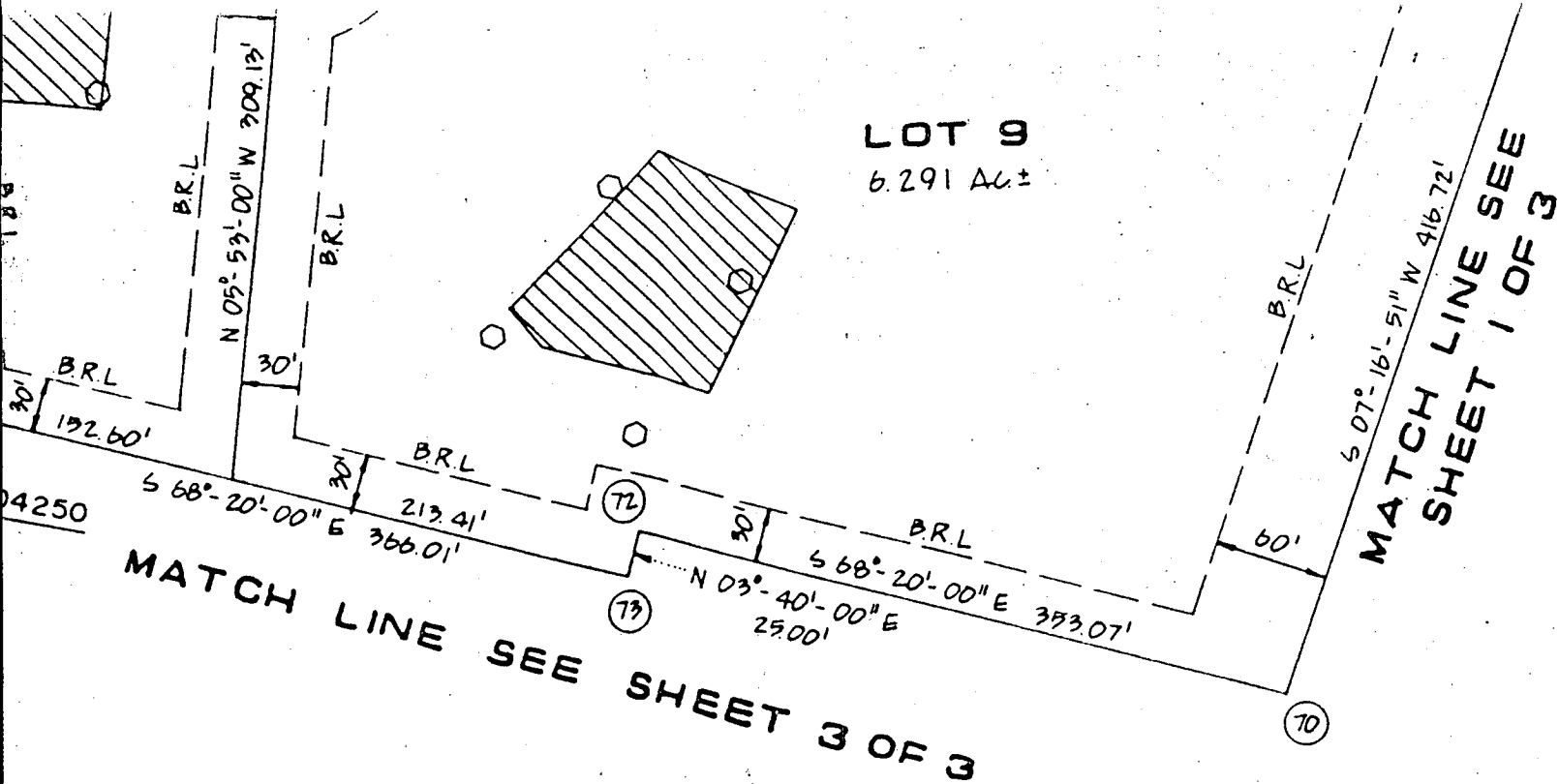
X PERC
3min
INLET 4"
BOTTOM 8 1/2"

CORR INDICATE NORTH. - NAME ADJOINING ROADWAY AS BASE LINE

180 φ / BR

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8/28/86	1 S V	4" 14"	12:24	12:27	12:27	12:30	3min
	2 S V	4" 13"	12:27	12:29	12:29	12:32	3min
	3 S M	5" 9"	12:39	12:41	12:41	12:43	2min
			12:39	12:40	12:40	12:42	2min
	3 V ^o	13.5"	SAME AS OTHER HOLES				
	4 V	13"	SAME AS # 1 & 2				

REMARKS HOLES DIFF THAN PLAT
 TYPE OF SOIL Glenelg
 TESTED BY S. Abel ALSO PRESENT: J. FROCK & CO.



SURVEYOR'S CERTIFICATE

I hereby certify that the Final Plat shown hereon is correct; that it is a Subdivision of part of the land conveyed to Mary L. Nichols by a deed dated December 26, 1975 and recorded among the Land Records of Howard County, Maryland in Liber at Folio 545 and that all monuments are in place or will be in place prior to the acceptance with the Annotated Code of Maryland, as amended



Jack E. Clark
JACK E. CLARK
 DATE **10-16-87**

REGISTERED PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 4379

RECORDED AS PLAT **7831** ON **5-16-88**
 AMONG THE LAND RECORDS OF HOWARD COUNTY, MARYLAND

DUNFARMIN ESTATES

LOTS 1 THRU 18

TAX MAP 34 PARCEL 292
 FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

THE J.E. CLARK COMPANY
 LAND SURVEYING AND ENGINEERING

P.O. BOX 147
 LAUREL, MD 20707
 (301) 725-3442

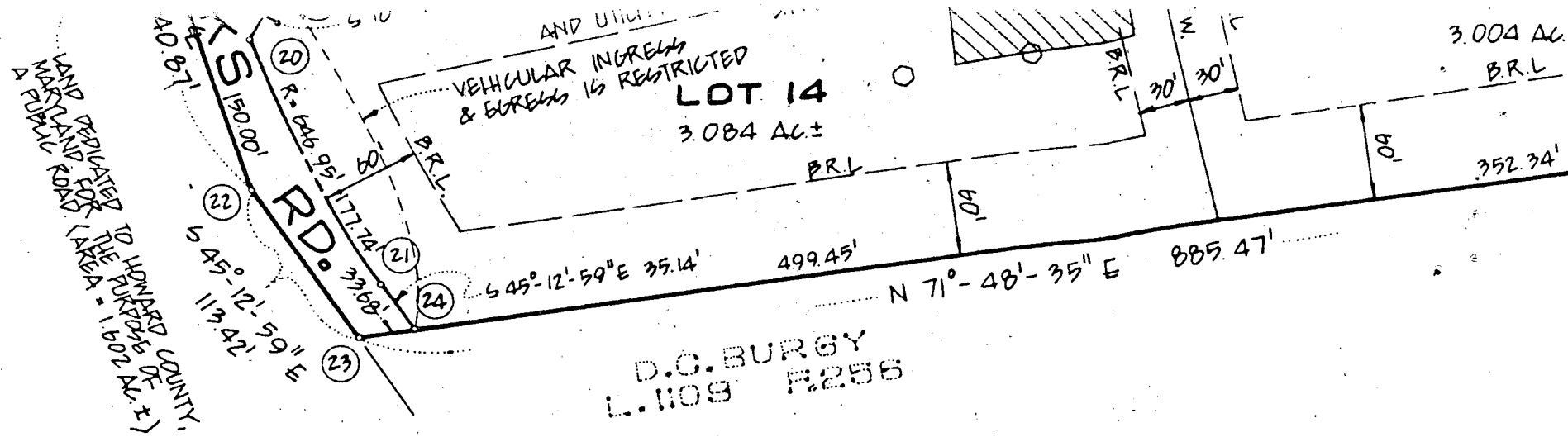
REF: S-86-68
 P-87-47

SCALE: 1" = 100'

DATE: OCT 1987
 Rev. 8-88

SHEET **2**
 OF **3**

F-7831



AREA TABULATION

	THIS SHEET
TOTAL NUMBER OF LOTS	7 LOTS
TOTAL AREA OF LOTS	25.022 AC. ±
TOTAL AREA RIGHT-OF-WAY DEDICATION	1.602 AC. ±
TOTAL AREA FLOOD PLAIN DEDICATION	N/A
TOTAL AREA OF PLAT	26.311 AC. ±

APPROVED : For Private Water and Private Sewerage Systems.

[Signature] 4-28-88
 HOWARD COUNTY HEALTH OFFICER DATE

APPROVED : HOWARD COUNTY OFFICE OF PLANNING AND ZONING

[Signature] 5/11/88
 DIRECTOR DATE

APPROVED : FOR Storm Drainage Systems and Public Road.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.
[Signature] 5/12/88
 DIRECTOR DATE

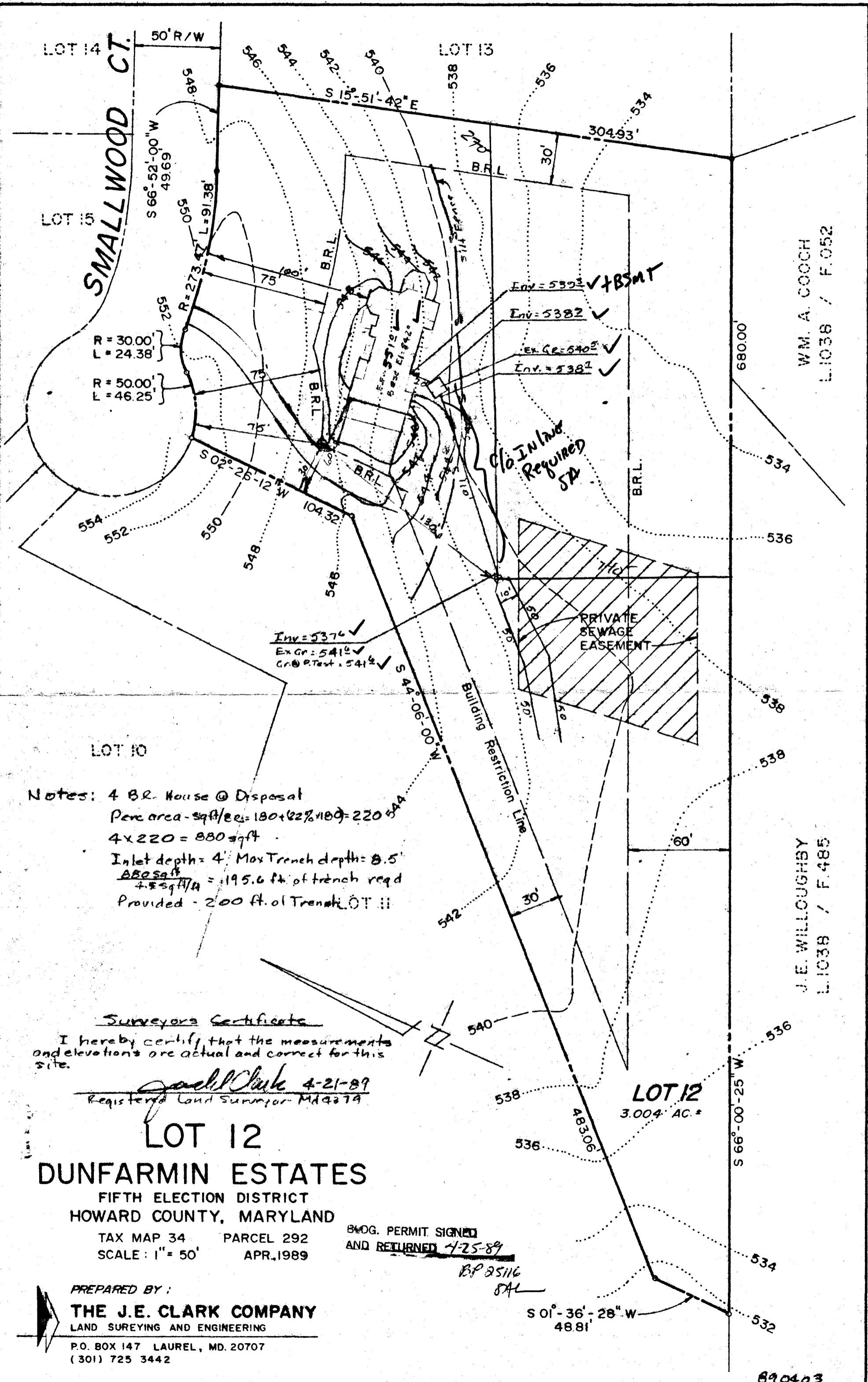
OWNER'S CERTIFICATE

We, Samuel Turner Nichols, Jr. and James Smallwood Nichols, owner of shown and described hereon adopt this plan of Subdivision and in consideration of this Final Plat by the office of Planning and Zoning, establish the minimum Line and unto Howard County, Maryland, its successors and assigns (1) to construct and maintain sewers, drains, water pipes and other municipal utilities under all Roads and Streets Right-Of-Ways and the specific easement area (2) the right to require Dedication For Public Use the beds of the streets and/or plain and Open Space where applicable and for good and other valuable consideration grant the right and option to Howard County to acquire the Fee Simple Title or roads and flood plains, storm drainage facilities and Open Space where (3) the right to require Dedication of Water Ways and Drainage Easements for purpose of their construction, repair and maintenance and (4) that no Building of any kind shall be erected on or over the said Easements and Right-Of-Ways.

Witness our hands this 27th day of October, 1987

[Signature]
 SAMUEL T. NICHOLS, JR.

[Signature]
 JAMES S. NICHOLS, JR.
 JAMES S. NICHOLS, JR.



SMALLWOOD CT.

LOT 14

LOT 13

LOT 15

R = 30.00'
L = 24.38'

R = 50.00'
L = 46.25'

Env = 5393 ✓ +BSMT

Env = 5382 ✓

Ex Gr = 5405 ✓

Env = 5381 ✓

Cl. Inlet Required
5A

PRIVATE SEWAGE EASEMENT

Env = 5376 ✓

Ex Gr = 5410 ✓

Gr. @ R. Test = 5410 ✓

LOT 10

Notes: 4 B.R. House @ Disposal
 Perc area - sqft/ee = $180 + 82\% \cdot 180 = 220$
 $4 \times 220 = 880$ sqft
 Inlet depth = 4' Max Trench depth = 8.5'
 $\frac{880 \text{ sqft}}{4.5 \text{ sqft/ft}} = 195.6$ ft. of trench reqd
 Provided - 200 ft. of Trench. LOT 10

Surveyors Certificate

I hereby certify that the measurements and elevations are actual and correct for this site.

Joel Clark 4-21-89
 Registered Land Surveyor - MD 4279

LOT 12

DUNFARMIN ESTATES

FIFTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

TAX MAP 34 PARCEL 292
 SCALE: 1" = 50' APR. 1989

BOG. PERMIT SIGNED
 AND RETURNED 7-25-89

BP 25116
 SAL

PREPARED BY:
THE J.E. CLARK COMPANY
 LAND SURVEYING AND ENGINEERING

P.O. BOX 147 LAUREL, MD. 20707
 (301) 725 3442

WM. A. COOCH
 LI 1038 / F. 052

J.E. WILLOUGHBY
 LI 1038 / F. 485

890403

B 1 **2296** SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

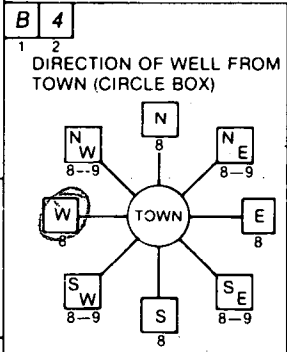
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

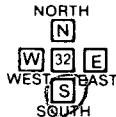
STATE PERMIT NUMBER
HO-88-0392
 fill in this form completely

Date Received (APA) **012489**
 OWNER INFORMATION
UTILITY CONSTRUCTION
 15 Last Name Owner First Name 34
374 ST. SE
 36 Street or RFD 55
WASHINGTON DC 20003
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
 1 **HOWARD** 21
 8 COUNTY
DUNFARMIN ESTATES 42
 23 SUBDIVISION
 SECTION **12** LOT **12**
 44 46 48 50
CLARKSVILLE 71
 52 NEAREST TOWN
 MILES FROM TOWN (enter 0 if in town) **1 3/4** MI
 73 76 77 78

DRILLER INFORMATION
Joseph L. Mayne 238
 Driller's Name 9 77 License No. 80
Joseph L. Mayne Well Drilling
 Firm Name
5512 RIDGE RD. PH. AIRY 21771
 Address
Joseph L. Mayne 1/24/89
 Signature Date



SMYTHWOOD CT. 30
 11 NEAR WHAT ROAD
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

 34 **170** 37
 DISTANCE FROM ROAD
 ENTER FT or MI **FF**
 38 39

B 2 WELL INFORMATION
 1 APPROX. PUMPING RATE (GAL. PER MIN.) **5** 12
 8
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** 20
 14

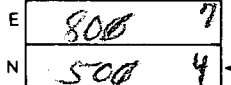
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)
 TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
HOWARD A# 37383
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S
 DATE ISSUED **012689** x **Charles E. ...** 1/26/89
 43 48 CO SIGNATURE EXP. DATE
 NORTH GRID **504000** EAST GRID **0807000**
 50 55 57 63

APPROXIMATE DEPTH OF WELL **300** FEET
 24 28

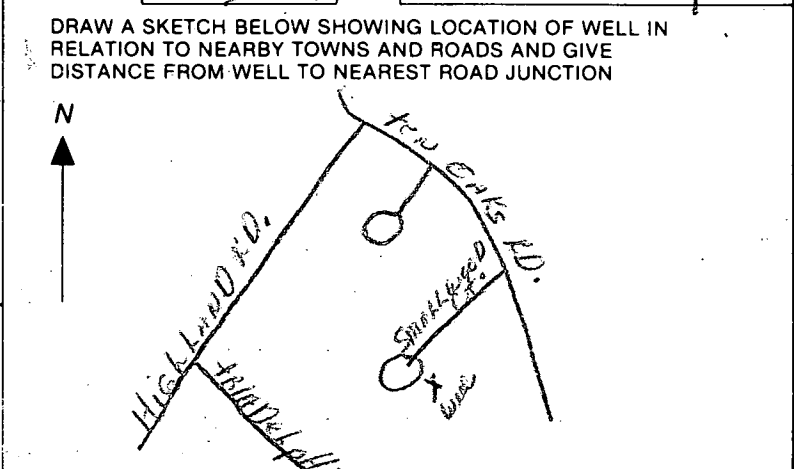
APPROXIMATE DIAMETER OF WELL **6** INCH
 NEAREST INCH

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


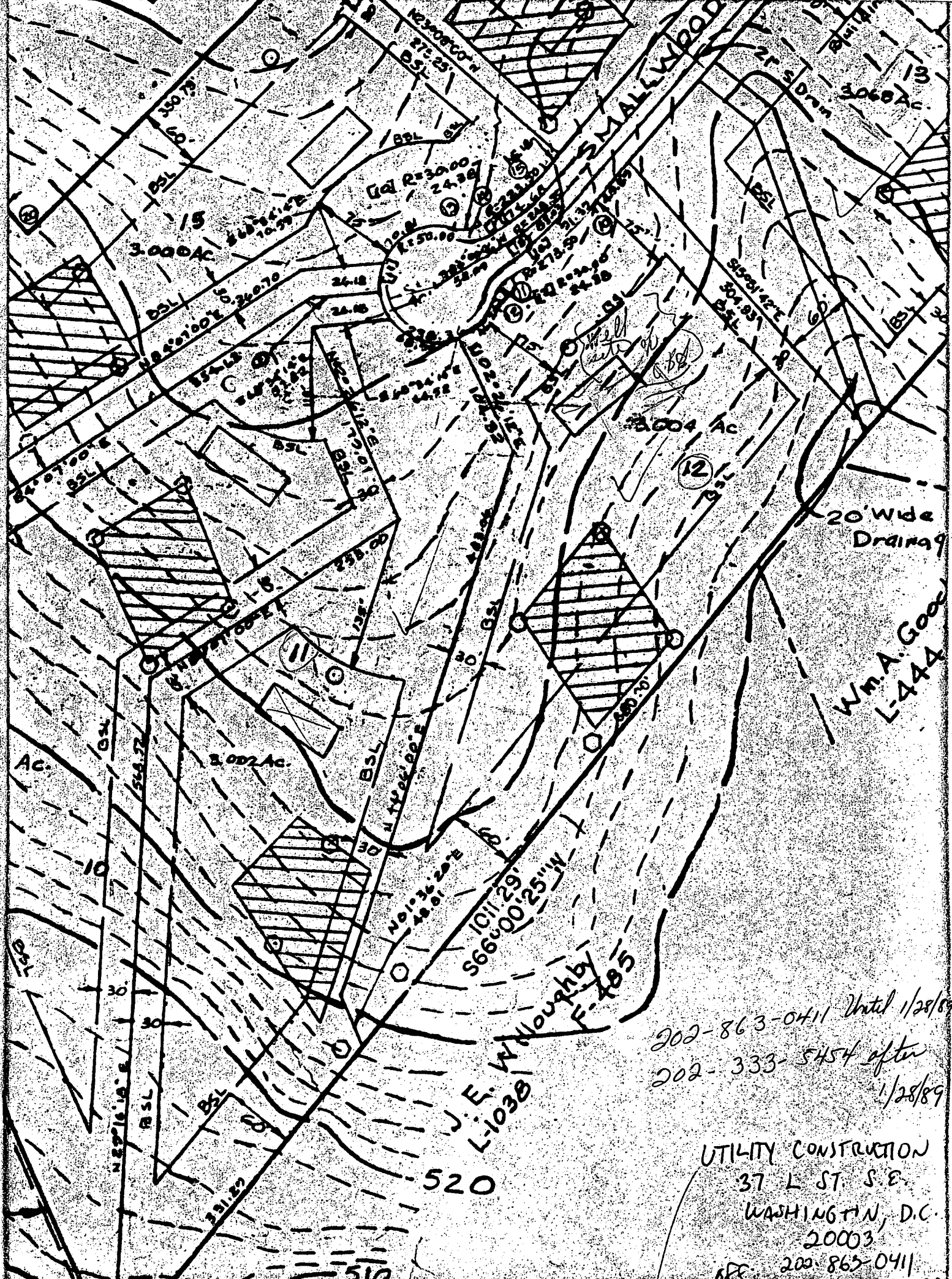
4-14-89
 Great 9:30
 45' casing
 40' open
 11 bags cement
 2' above grade
 J. Wadeau

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 _____
 54 63
 FORCE **CM** WRITE INITIALS IN BOX PERMIT No. **HO-88-0392**
 67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS _____
 COUNTY _____



202-863-0411 Until 1/28/89
 202-333-5454 after
 1/28/89

UTILITY CONSTRUCTION
 37 L ST. S.E.
 WASHINGTON, D.C.
 20003
 8PC 202-863-0411

520

510

Ac.

3,002 Ac

3,004 Ac

20' WIDE DRAINAGE

W.M.A. GOODE
 L-444

J. E. W. Houghb
 F-785
 L-1038

SMALLY ROAD

BSL
 GSL
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 3002
 3004
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 1100

C1 6767

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. 3-6 ON ALL CARDS)

COUNTY NUMBER A 37383

DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

Grid for date received

041489

365 (TO NEAREST FOOT)

HO-88-0392

OWNER UTILITY CONSTRUCTION STREET OR RFD SMALLWOOD COURT TOWN CLARKSVILLE SUBDIVISION DUNFARMIN EST. SECTION LOT 12

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, FEET FROM, FEET TO, Check if water bearing. Includes handwritten entries: SAND Stone, 0-39; Gravel with rock, 39-365.

365' dry filled in with cement + drilling material

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT CM BENTONITE CLAY BC NO. OF BAGS 11 NO. OF POUNDS 1154

CASING RECORD casing types insert appropriate code below ST CO STEEL CONCRETE PL OT PLASTIC OTHER

MAIN CASING TYPE SF Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 43

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

Table for screen depth: DEPTH (nearest ft.) 1: 110, 43, 365; 2: ; 3: ; 4: ; 5: ;

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

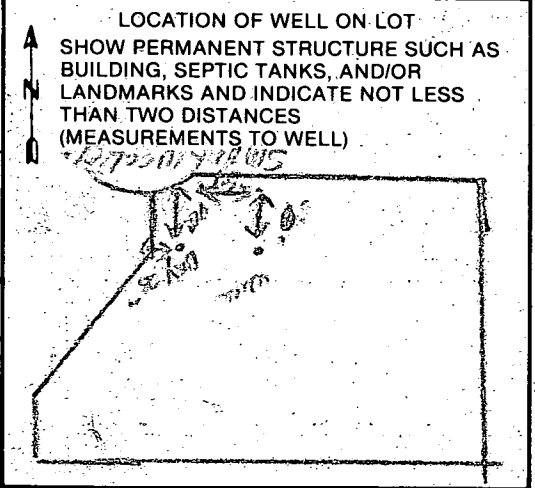
SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to

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.) WQ TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 3 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 35 WHEN PUMPING 23 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) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.) CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (nearest foot)



FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 88-0392
 Location of property (road) SMALL WOOD COURT
 Subdivision DUNFARMIN EST Lot 12 Block - Plat - Sec. -
 Well Driller JOE L. MAYNE Owner UTILITY CONSTRUCTION

Depth of well 365
 Distance of measuring point (M.P.) above ground 1 1/2'
 Static water level (S.W.L.) below M.P. 35

I. High rate pumping -- reservoir drawdown

Time pump started 8:00 Pumping rate 15 G.P.M.
 Total time 30 min. to reach pumping water level 229 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 1/2 time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:15	142	4 sec.	N/A	15 G.P.M.
8:30	229	4		15
8:45	229	20		3
9:00	229	20		3
9:15	229	20		3
9:30	229	20		3
9:45	229	20		3
10:00	229	20		3
10:15	229	20		3
10:30	229	20		3
10:45	230	20		3
11:00	230	20		3
11:15	230	20		3
11:30	230	20		3
11:45	230	20		3
12:00	231	20		3
12:15	230	20		3
12:30	230	20		3
12:45	230	20		3
1:00	230	20		3
1:15	230	20		3
1:30	230	20		3
1:45	230	20		3
2:00	230	20		3
HD-2415	230	20		3
8:30	230	20		3

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 X Replacement _____ Receipt # 44745
Date 7/13/89
Name of Installer Timothy C. Kraus - Catonsville Telephone 747-2293
Plumbing
License Number 3104
Certified Well Pump Installer _____ Well Driller _____ Registered Plumber ✓
Name of Property Owner James Silverman Telephone 340-2410
Subdivision DUNFARMIN Estate Lot # 12 Well Tag # _____
Site Address ~~5515~~ 5515 Smallwood Ct.

Pump Motor Pitless Adapter
1. Type 1. Horsepower 3/4 1. Make _____
a. Deep well jet _____ 2. RPM _____ 2. Model # _____
b. Shallow well jet _____ 3. Voltage _____ 3. Depth 4'
c. Submersible _____ a. 110 _____
2. Make Red Jacket b. 220 _____
3. Model # _____
4. Capacity _____ GPM
5. Pump exceeds well capacity Yes _____ No ✓
6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors ✓ Cable guards ✓ Other _____
Tank Piping Well data
1. Capacity _____ 1. Type Plex Blue 1. Depth 360 ft.
2. Pressure relief valve? yes 2. Size 1" 2. Yield 3 GPM
3. NSF and/or BOCA Code approved ✓ 3. Static water level _____ ft.
4. Depth of supply line 4" 4. Will water supply be disinfected by installer? yes

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: 7/10/89

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