

3-10-89
① LATE AM
② LATE P.M.
3/13/89 AM

MANHOLE CLEANOUT
OF SEPTIC REQ'D.

3/10 ① A.M. - P.C.O.
② P.M. - P.C.O.
C.B.S.

PERMIT

SEWAGE DISPOSAL SYSTEM

MARYLAND STATE DEPARTMENT OF HEALTH

HOWARD COUNTY
BUREAU OF ENVIRONMENTAL HEALTH
461-9933

INDEXED

03-312674

WPI ← N

P 43181
A 38494

DISTRICT 3rd

DATE 2/28/89

DATE SYSTEM APPROVED 3/20/89

INSPECTOR M. ReFkin

Alan Whitworth Excavating

IS PERMITTED TO INSTALL ALTER

ADDRESS 12680 Clarksville Pike, Clarksville, MD PHONE 531-5033

SUBDIVISION Triadelphia Woods ROAD 12624 Golden Oak Drive LOT 47

PROPERTY OWNER Coventry Construction

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 - 210 sq. ft. per bedroom with garbage disposal. Trench to be 2 feet wide. Inlet 3.5 feet below original grade. Bottom maximum depth 7.5 feet below original grade. Effective area begins at 3.5 feet below original grade. 4 feet of stone below distribution pipe.

LOCATION - Place the first trench 140 feet up the left (225.49') lot line and 110 feet off the same lot line as seen when facing the lot from Golden Oak Drive. Run trenches on contour toward the rear of lot.

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

(OK TO PLUMB TO END OF TRENCH CLOSEST TO HOUSE)

PLANS APPROVED BY Sid Abel DATE 5/15/88

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

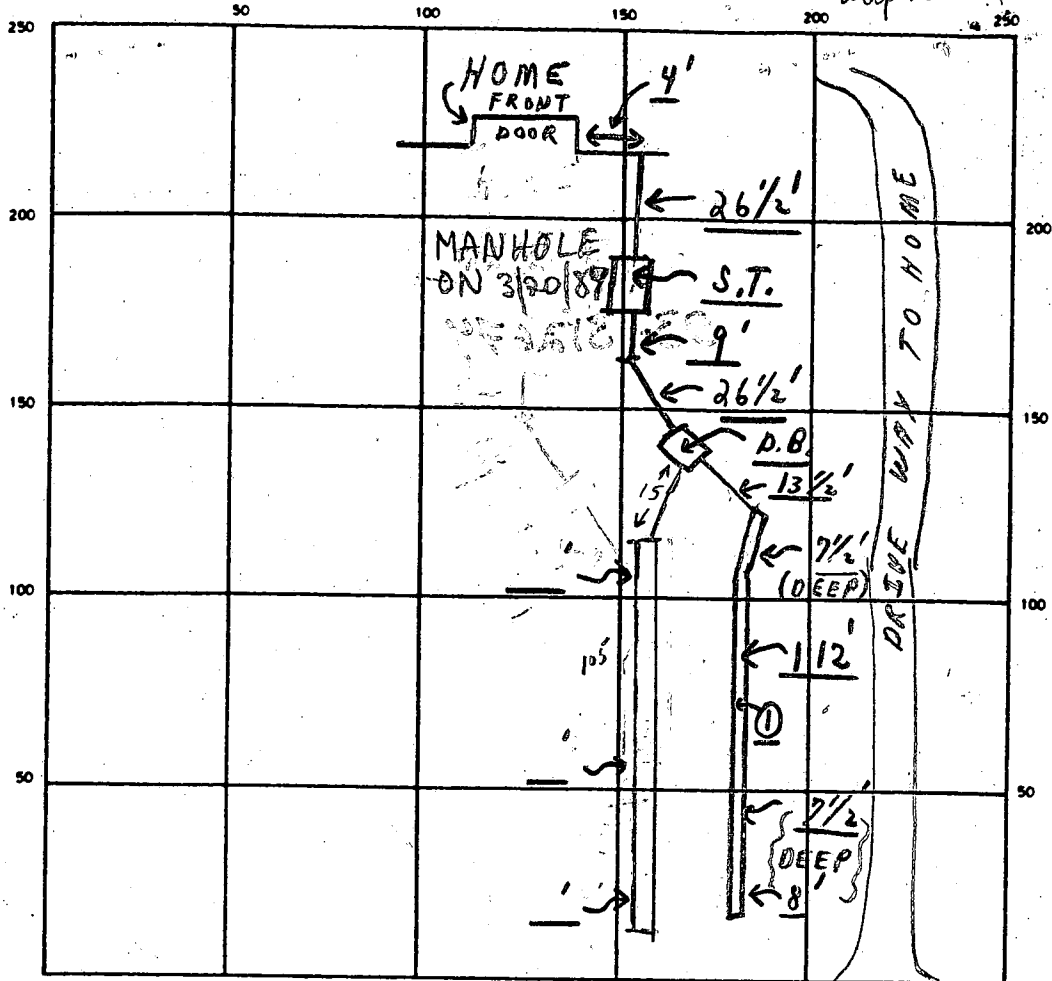
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

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

CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEMS.

A
38494

4' B.C. WELL WAY BACK IN WOODS
 Pitless Adaptor OK 3/20/89 MR



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

← GOLDEN OAK OR. →

SEPTIC TANK. LEVEL OK CLEANOUTS S.T. {Need man holes} (Cover type)

DISTRIBUTION BOX. LEVEL OK (No baffles)

DRAIN FIELD/TILE FIELD. DEPTH 7.5 FT. TRENCH WIDTH 2 FT. INLET DEPTH 3.5 FT.

EFFECTIVE GRAVEL DEPTH 7 FT. TOTAL LENGTH 217 FT.

NUMBER OF TRENCHES 2 ONE SIDEWALL/BOTTOM AREA 868 SQ. FT.

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

ABSORBENT AREA _____ SQ. FT.

REMARKS ① A.M. 3/10/89 OK FOR STONE IN FIRST TRENCH-ONLY; ② TRENCH
① 112' LONG IN WOODS - OK; OK TO COVER FROM HOUSE TO
SEPTIC TANK AND TO 1' OF DISTRIBUTION BOX; PARTIAL
3/13/89 OK TO FINISH TRENCHES & COVER. C.W. CLEANOUT ON SEPTIC STILL REQUIRED. C.B.D.
3/20/89 MANHOLE INSTALLED MR

DATE SYSTEM APPROVED 3/20/89 INSPECTOR M. Riffin

A 38494

SUBDIVISION:

TRIDEN PH IN WOODS

LOT NUMBER:

47

DRY WELL OR DRY WELL AND TRENCH

_____ sq. ft./bedroom

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

to 2,000

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

210 +

170 sq. ft./bedroom

Trench to be 2 wide.

Inlet 3.5 feet below original grade.

Bottom maximum depth 7.5 feet below original grade.

Effective area begins at 3.5 feet below original grade.

4 feet of stone below distribution pipe.

*34
38 [with Garbage Disposal]*

*Y = YES or NO
Whitworth*

- 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%. *per Whitworth & Allen*

LOCATION: PLACE THE FIRST TRENCH 140 FEET UP THE LEFT (225.49')

LOT LINE AND 110 FEET OFF THE SAME LOT LINE AS SEEN WHEN

FACING THE LOT FROM GOLDEN OAK DR. RUN TRENCHES ON

CONTOUR TOWARD THE REAR OF LOT. 5-16-88 J. Allen

APPLICATION

PERCOLATION TESTING

A 38494

P _____

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

DISTRICT 3

DATE 10/20/86

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 Patent Land Co., Inc. COUNTRY CONST.

ADDRESS _____ PHONE 531-5539

PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Triadelphia Woods LOT NO. 2748 ^{LOT 47 Prelim} _{6/29}

ROAD AND DESCRIPTION Triadelphia Rd on right 1/2 mile
west of Carroll Mill Rd. 12624 Golden Oak Dr.

TAX MAP 22 PARCEL # 508

SIZE OF LOT 3+ Acre 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.

Michael J. Demmitt
(SIGNATURE OF APPLICANT)

APPROVED BY Sid Abel FOR Deep Trenches DATE 5-16-88

REJECTED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____ DATE _____

REASONS FOR REJECTION OR HOLDING 2-13-87 Perc satisfactory; hold for subdivision plat. S. Abel

BLDG. PERMIT SIGNED
AND RETURNED 7-7-88

BP 19730 SAU

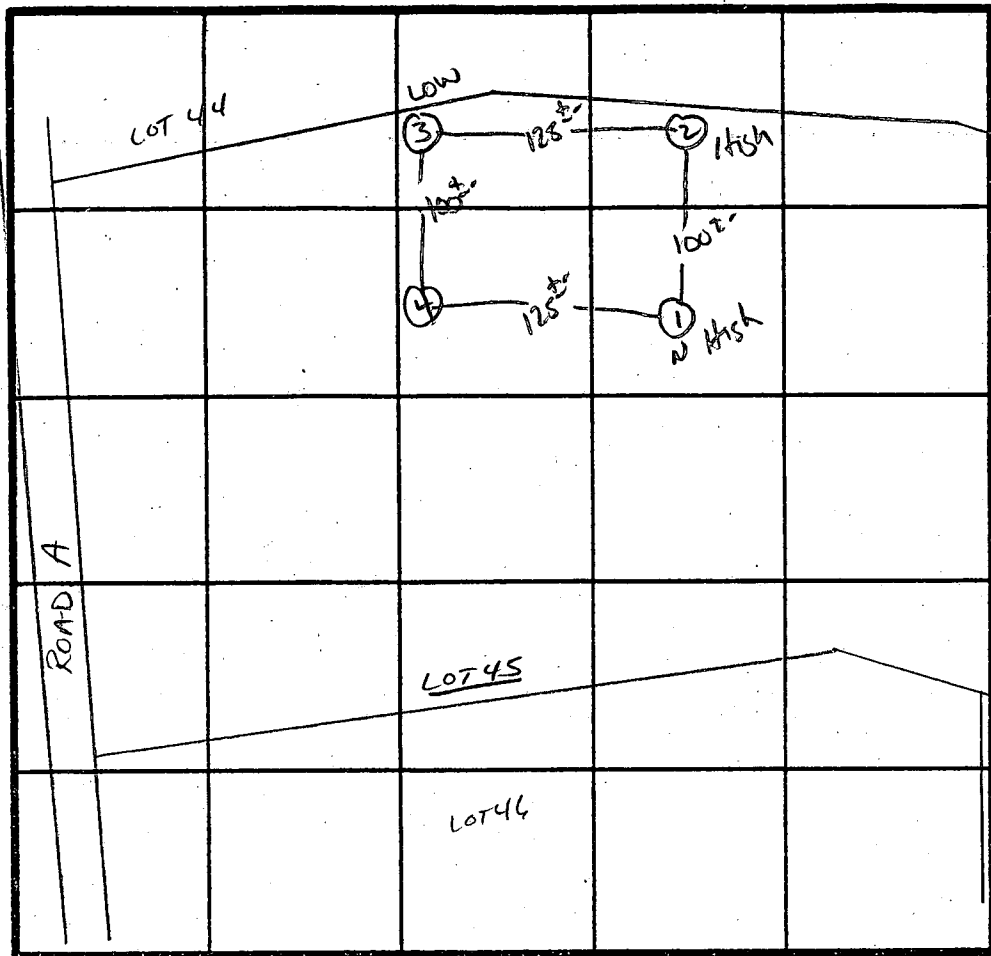
THIS IS NOT A PERMIT

① ② ③ ④
SOIL PROFILE

0'
A1-3
Yellow Br.
Silt loam
9-12% clay
10-15% FRASS
L.O. QUARTZ

3.5'
Yellow Br.
Silt loam
13-20%
FRASS.

14 1/2"



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

↓ TO TRIADelphia Rd.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
2/13/87	1V	12" UNIFORM soil below	25"				
	2S	3.5	3:31	3:40	3:40	3:59	19 MIN
	2V	7.5	3:21	3:25	3:25	3:32	11 MIN
	3V	12" UNIFORM soil below	3.5"				
	3S	4"	3:45	3:46	3:46	3:48	2 MIN
	4S	12" UNIFORM soil below	3.5"				
	4V	3.5'	3:35	3:36	3:36	3:38	2 MIN
		12" UNIFORM soil below	3.0"				

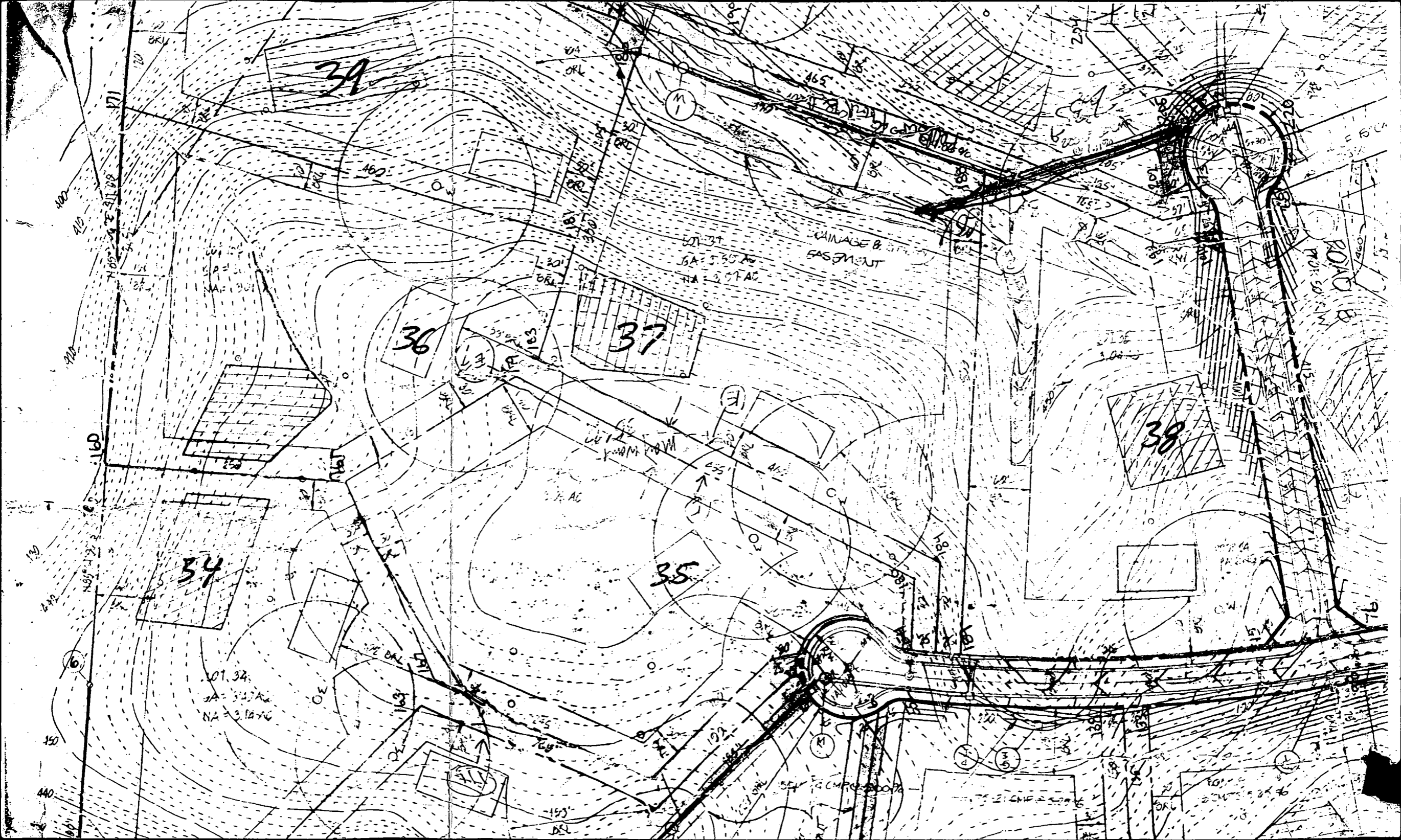
REMARKS Holes Slightly DIFF THAN FLAT.

TYPE OF SOIL MANOR GRAVELLY Lm.

TESTED BY S. Abel

ALSO PRESENT Jim, Neil, Jeff, Richard





SECTION 1, AREA 2

LOT 49
145,109.98 SQ. FT.
3.3313 AC. GROSS
3.1247 AC. NET

LOT 50
145,016.6 SQ. FT.
3.3291 AC. GROSS
3.1024 AC. NET

LOT 47
135,275.7 SQ. FT.
3.1055 AC.

132,079.7 SQ. FT.
3.0322 AC.

LOT 51
132,235.7 SQ. FT.
3.0317 AC.

Michael Bady
596-0450

20' DRAINAGE & UTILITY ESMT.

PROPERTY LINE

ARCHITECTURAL DESTROYED
DUE TO CONSTRUCTION

TALL GRASS
W/IN
MAY BE FOR SALE

MATCH LINE
SEE SHEET
1 OF 4

APPROXIMATE
GROUND LINE

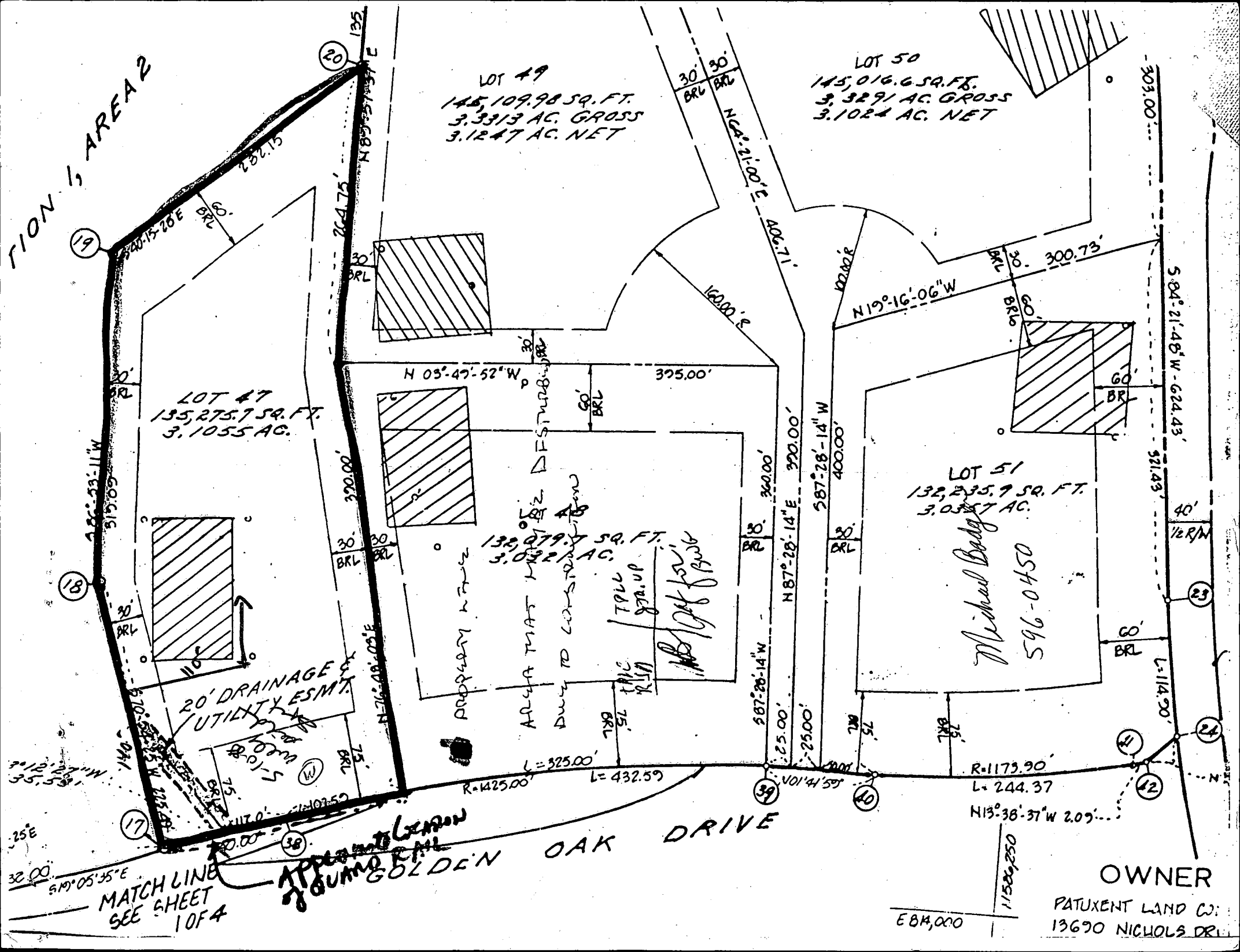
GOLDEN OAK DRIVE

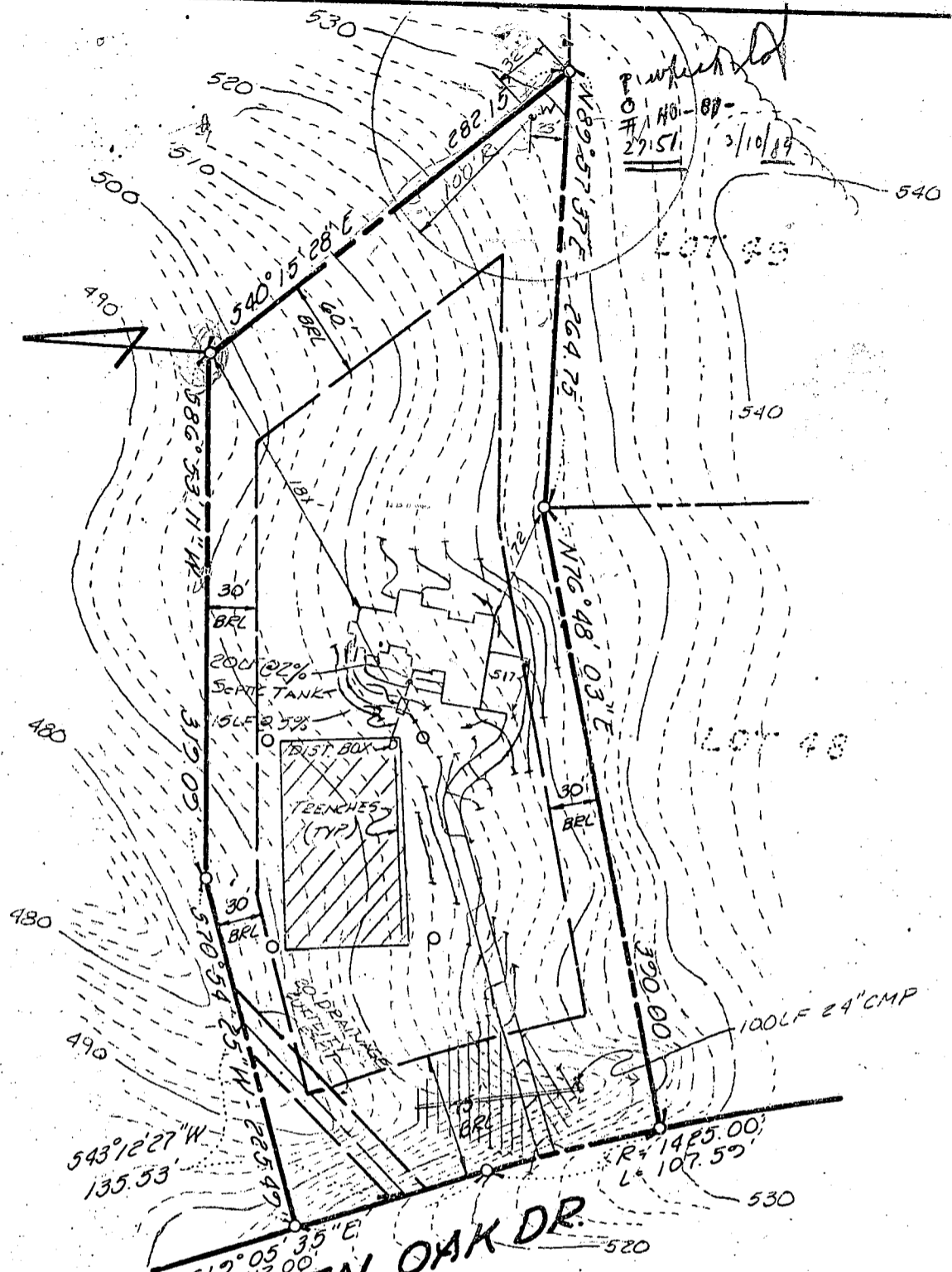
OWNER

PATUXENT LAND CO.
13690 NICHOLS DR.

EBM,000

11500,250





DIST. BOX:
 INLET - 505.0 ✓
 EX. GRND - 508.0 ✓
 1/2' Shallow - OK/SA

SEPTIC TANK:
 INV IN - 505.75 ✓
 INV OUT - 505.75 ✓
 EX. GRND - 510.0 ✓
 FIN GRND - 511.0 ✓

HOUSE:
 FF - 518.0 ✓
 BSMT - 509.0 ✓
 GAR - 517.3 ✓
 INV OUT - 506.35 ✓ (+ BSMT)

WELL:
 EX. GRND - 529.0 ✓
 FIN. GRND - 529.0 ✓

MANHOLE TO GRADE REQ. SA

- NOTES:**
1. TAX MAP-22 PARCEL - 528
 2. PLAT REFERENCE: 7738
 3. CONTRACTOR TO SET GRADES IN FIELD.
 4. TOPO HEREON BASED ON AERIAL TOPOGRAPHY.

7-7-88
 elevations by
 SAG

BLDG. PERMIT SIGNED
 AND RETURNED 7-7-88
 BP19730 SAG

TITLE: GRADING STUDY				
PROJECT: TRIADDELPHIA WOODS - Lot 47 - Sec. 1 AREA. 1				
LOCATION: PLAT 7738 3 RD ELECTION DISTRICT HOWARD CO., MD.				
SCALE: 1"=100'	DESIGNED BY:	DRAWN BY: D. WELSH	CHECKED BY:	DATE: 6-28-88
FIELD BOOK:	PAGE NO.:	JOB NO.: 8875	DRAWING NO.: 1 OF 1	

boender associates
 inc.
 consulting engineers
 land surveyors
 land planners

COURTHOUSE SQUARE
 3565 ELLICOTT MILLS DRIVE
 ELLICOTT CITY, MD. 21043
 (301) 465-7777

B 1 **3699** SEQUENCE NO. (DP USE ONLY)
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

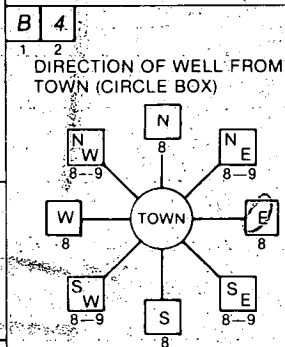
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
40-81-2751
 fill-in this form completely

Date Received (APA) **092788**
 OWNER INFORMATION
 BAUSER W. MIHAEL
 HODEFUVI WERLE BAWK
 COLUMBIA MD 21047

B 3 LOCATION OF WELL
 HOWARD COUNTY
 TRIADLPHIA WOODS
 SECTION 44 46 LOT 47 50
 CLEVELAND
 MILES FROM TOWN (enter 0 if in town) **2 1/2** MI

DRILLER INFORMATION
 Joseph R. Wayne 238
 Joseph R. Wayne Well Drilling
 5512 Ridge Rd. Mt. Airy, Md. 21771
 Joseph R. Wayne 4/26/88



Golden Oak Drive
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N, WEST W, EAST E, SOUTH S
 DISTANCE FROM ROAD **20** FT or MI **FT**

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

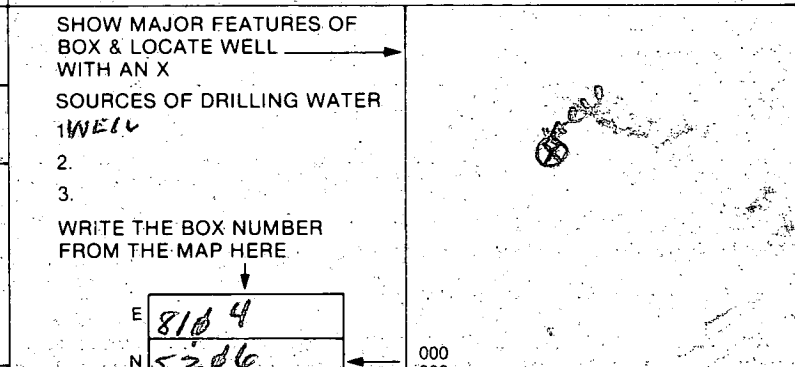
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)
 PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 Howard A. 38494
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE DATE ISSUED
 051688
 NORTH GRID 526000 EAST GRID 0814000

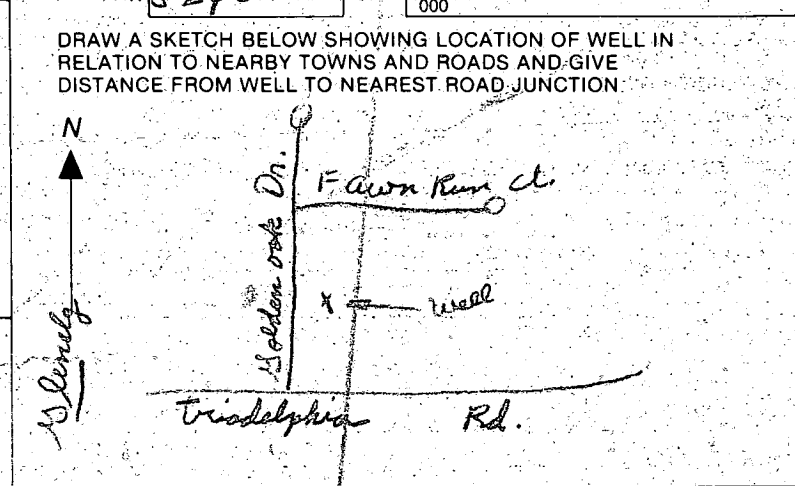
APPROXIMATE DEPTH OF WELL **300** FEET

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 _____



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 **G A P**
 FORCE **5A** WRITE INITIALS IN BOX PERMIT NO. **40-81-2751**

SPECIAL CONDITIONS

COUNTY

C1 9535

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-38494

DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

Grid for date received

Grid for date well completed

Grid for depth of well

Grid for permit number

OWNER: RADICA MICHAEL GOLDEN OAK DR. TOWN: KENNY SUBDIVISION: TRIADOLPHIA WOODS SECTION: LOT: 47

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. Includes handwritten entries: SAND Stone 0 35, Clay Mica Rock 35 400, Dry Well 400 Filled in Cement + Drilling materials.

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 12 NO. OF POUNDS 1128 GALLONS OF WATER 72 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 35 ft.

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 4 Total depth of main casing (nearest foot) 42

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 PL PLASTIC HO OPEN HOLE OT OTHER

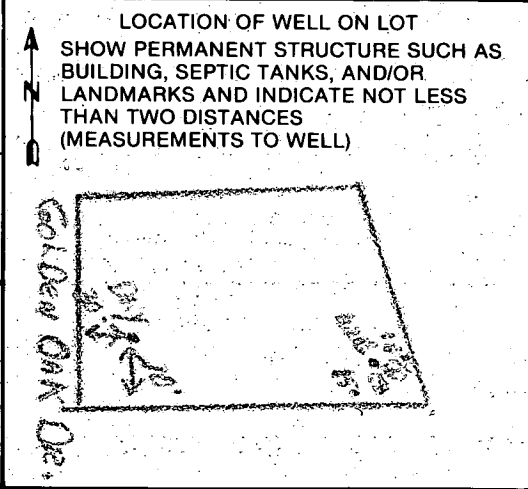
DEPTH (nearest ft.) HOLE 41 400 EACH SCREEN 1 2 3 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) 56 60

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min. to nearest gal.) 204 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 15 WHEN PUMPING 16 TYPE OF PUMP USED (for test) C centrifugal 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)



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

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 81-2751
 Location of property (road) GOLDEN SAIC DR.
 Subdivision TRIADAPHELA WOODS Lot 47 Block Plat Sec.
 Well Driller SMAYNE Owner BADGER, M.

Depth of well 400'
 Distance of measuring point (M.P.) above ground 1'
 Static water level (S.W.L.) below M.P. 15'

I. High rate pumping -- reservoir drawdown

Time pump started 7:30 Pumping rate 15 GPM.
 Total time 30 MIN. to reach pumping water level 264 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 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
7:45	138	4		15
8:00	264	4		15
8:15	264	30		6
8:30	264	30		2
8:45	262	30		2
9:00	260	28		2.1
9:15	260	25		2.4
9:30	260	25		2.4
9:45	260	25		2.4
10:00	259	25		2.4
10:15	259	25		2.4
10:30	259	25		2.4
10:45	259	25		2.4
11:00	259	25		2.4
11:15	259	25		2.4
11:30	259	25		2.4
11:45	259	25		2.4
12:00	259	25		2.4
12:15	259	25		2.4
12:30	259	25		2.4
12:45	259	25		2.4
1:00	259	25		2.4
1:15	259	25		2.4
1:30	259	25		2.4
HD-224 1:45	259	25		2.4
2:00	259	25		2.4