

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Cattail Meadows Drive

SEPTIC TANK LEVEL OK CLEANOUTS 1 on tank, 1 at house, manhole on tank

DISTRIBUTION BOX LEVEL OK, baffle in

DRAIN FIELD/TITLE DEPTH 6.0 FT. TRENCH WIDTH 3 FT. INLET DEPTH 4.0 FT.

EFFECTIVE GRAVEL DEPTH 2.0 FT. TOTAL LENGTH 70 x 4 FT. → 280

NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA 840 SQ. FT.

DRYWALL INSIDE DIAMETER      FT. EFFECTIVE DEPTH BELOW INLET      FT.

ABSORBENT AREA      SQ. FT.

REMARKS: 3/4/98 has house connection, ok to continue leaving ends of trenches open, ok to cover up to distribution box (KM)

3/5/98 ok to cover all work (KM)

DATE SYSTEM APPROVED 3/5/98 INSPECTOR Kimberly Niets

# APPLICATION

## PERCOLATION TESTING

A 49644C

P \_\_\_\_\_

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

DISTRICT 4th

DATE 9/30/93

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 Parcel 137, Inc. Pulte Home Corporation  
15298 Union Chapel Road  
ADDRESS Woodbine, MD 21797 PHONE (410) 442-2101

AGENT OR PROSPECTIVE BUYER Engineer: TSA Group, Inc.  
8480 Baltimore National Pike, Ste. 418  
ADDRESS Ellicott City, MD 21043 PHONE (410) 465-6105

PROPERTY LOCATION:  
SUBDIVISION Cattail Woods - Section 2 LOT NO. 9  
ROAD AND DESCRIPTION End of Brittle Branch Way (1709 Cattail Meadow Drive)

TAX MAP 7 PARCEL # 137  
SIZE OF LOT 1 Ac +/- TYPE BLDG. Single Family Dwelling - 4 Bed  
(SINGLE FAMILY DWELLING OR COMMERCIAL)

~~BLDG. PLAN SIGNED~~  
~~END RETURNED 2-11-98~~  
Serial # B00109798

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. Parcel 137, Inc. Bruce B. Benda President  
(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'


SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	

REMARKS \_\_\_\_\_

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT/BEDROOM \_\_\_\_\_

# APPLICATION

PERCOLATION TESTING

A 49644C

P \_\_\_\_\_

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

DISTRICT \_\_\_\_\_

DATE 9-27-93

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 Bruce Brendle

ADDRESS 15298 Union Chapel Rd PHONE \_\_\_\_\_

AGENT OR PROSPECTIVE BUYER Joint Venture

ADDRESS 1555 Union Chapel Rd PHONE \_\_\_\_\_

PROPERTY LOCATION:

SUBDIVISION Cattail Woods Sec II LOT NO. 9

ROAD AND DESCRIPTION Rt 97 sld

TAX MAP 7 PARCEL # 137

SIZE OF LOT 1 ACRE 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.

(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

A49644C

COUNTY #

SOIL PROFILE

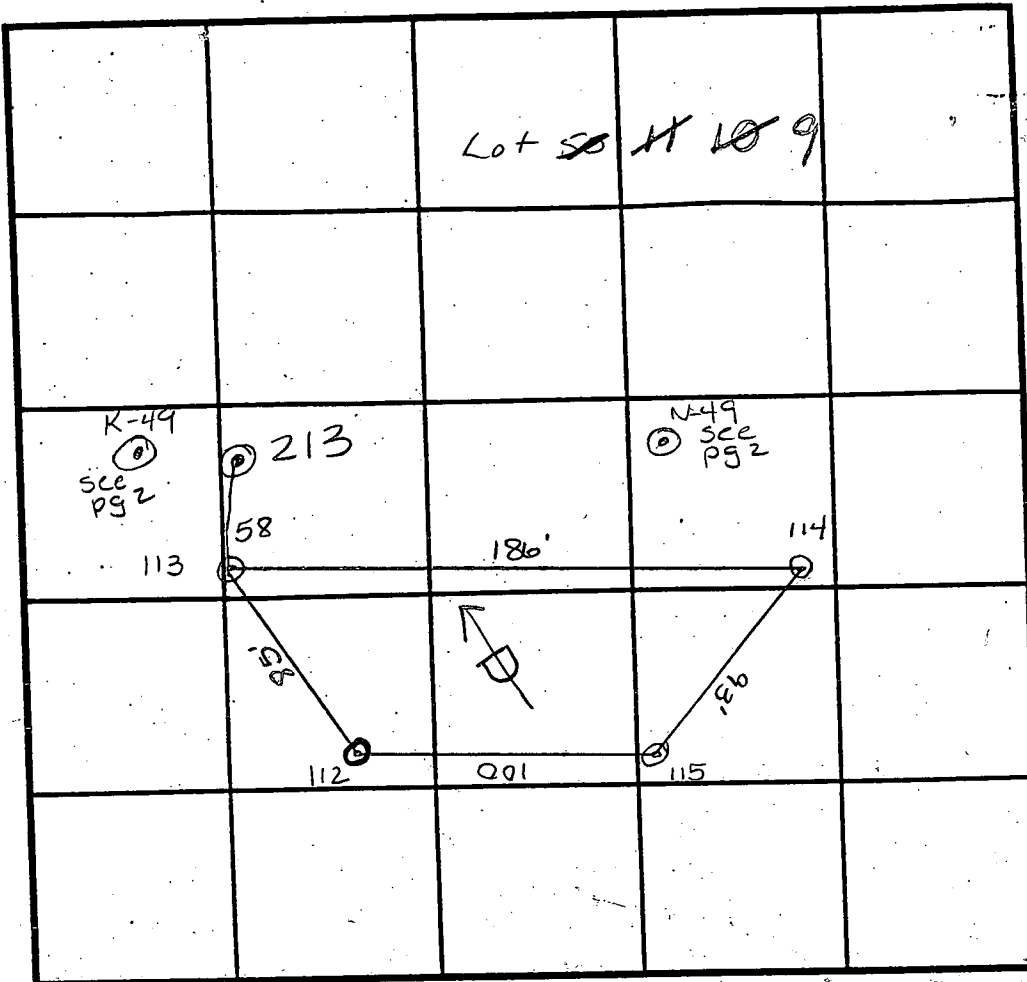
13'  
 10' 113  
 6' top soil  
 yell/brn C  
 3' red CL  
 4' yellowish brn w/ red SIL  
 Shelf of horizontal decayed shale at 6'

112

3' yell. brn CL  
 3' red CL  
 4' brn SIL  
 6' shaley  
 ↓  
 Fail

115

3' yell/brn CL  
 yell/brn SIL w/ decayed shale  
 OK



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

114  
 0' orange/brn & yell brn C  
 3' red/brn SIL  
 Shelf of shale and decayed shale at 6'  
 213  
 5' red SIL  
 yell/brn SIL  
 Some saprolite OK  
 11'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12/7/93	113	3 1/2' / V13'	11:22	11:25	11:25	11:29 <sup>15</sup>	4 1/4 min
	(112)	3' / V12'	12:22	12:24 <sup>30</sup>	12:24 <sup>30</sup>	12:29 <sup>30</sup>	5 min
	115	3' / V12'	12:28 <sup>30</sup>	12:30	12:30	12:32 <sup>30</sup>	2 1/2 min
	114	2 1/2' / V13'	12:31	12:34	12:34	12:38	4 min
	(112)	6' / V12'	2:59 <sup>30</sup>	3:01	3:01	3:03	2 min
			TOO FAST				
3/15/94	213	Visual	to 11'				OK

REMARKS USED HOLES K, L, M, N & 113

TYPE OF SOIL Glendon loam

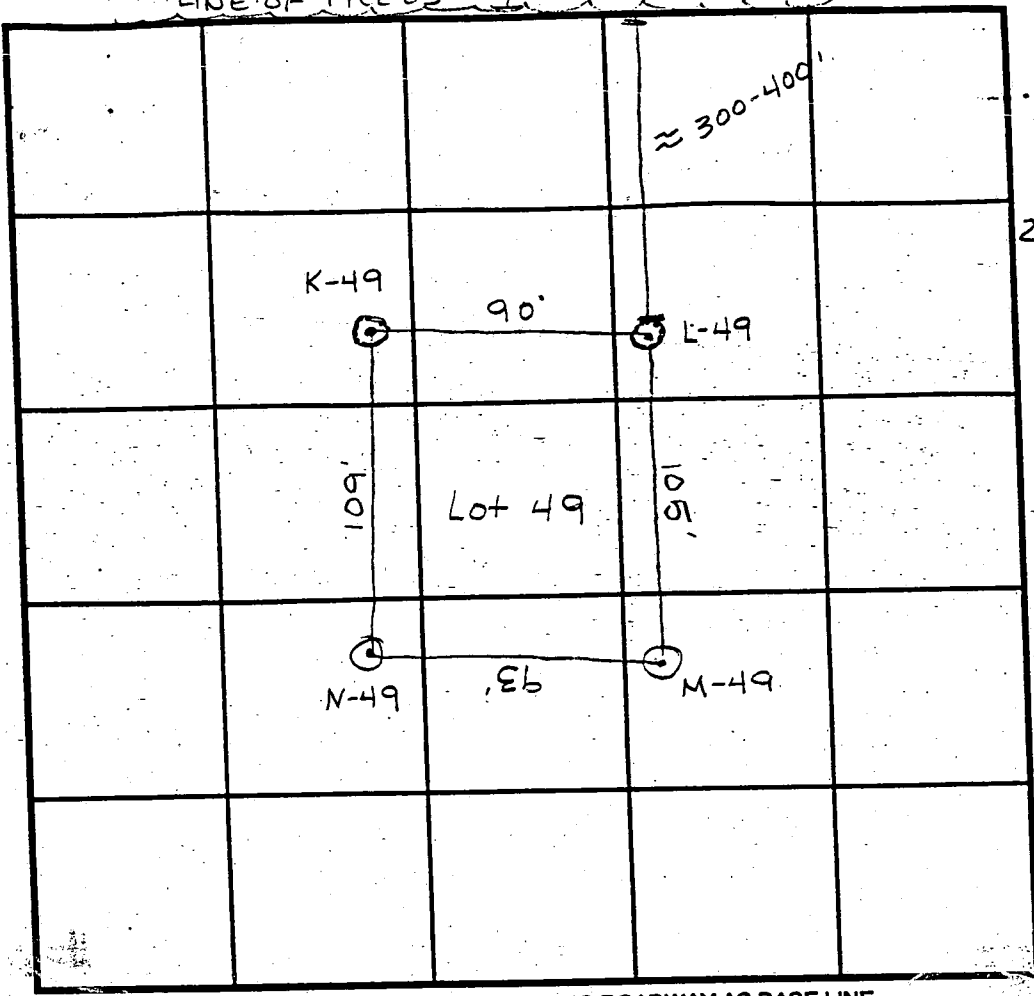
TESTED BY A. McMillen / A. Nadeau ALSO PRESENT B SANDERS

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

Lot 49 ~~M-49~~  
 LINE OF TREES 2'

COUNTY #  
 SOIL PROFILE K-49  
 10' brn C  
 3' bright red SIL  
 8' >50% weathered shale (not big chunks)  
 L-49  
 4' bright orange/red c  
 4' bright red/orange SIL  
 7' >50% weathered shale  
 M-49  
 3' bright red CL  
 3' bright red SIL  
 7' >50% weathered shale  
 12'



SOIL PROFILE M-49  
 0' red/brn C  
 2 1/2' red/brn w/ yellow and red streaks SIL  
 7' very weathered shale not large frags.  
 12'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/17/93	K-49	3' / V12 1/2	1:16	1:21	1:21	1:25	4min
		6 1/2' / V12 1/2	3:05 <sup>30</sup>	3:06 <sup>30</sup>	3:06 <sup>30</sup>	3:08 <sup>15</sup>	1 3/4 min
	L-49	4' / V11'	1:26	1:28	1:28	1:33	8min
	M-49	3' / V12'	1:34	1:37	1:37	1:42	5min
	N-49	3' / V12'	1:48 <sup>30</sup>	1:49	1:49	1:57 <sup>30</sup>	8 1/2 min

REMARKS Test L 49 AT 7'  
 TYPE OF SOIL Glenelg LOAM  
 TESTED BY CRAIG WILLIAMS & AMY McMillen ALSO PRESENT Bobby  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 7 min TRENCH WIDTH 3'  
 INLET DEPTH 4' MAXIMUM BOTTOM DEPTH 6' SQ. FT./BEDROOM 210 ft<sup>2</sup>



PARCEL DIVISION LINE

Copy of signed Prelim 9-7-94

BRANCH

$\Delta = 11^{\circ}59'37"$   
 $R = 500.00'$   
 $L = 125.60'$

$\Delta = 19^{\circ}02'34"$   
 $R = 316.00'$   
 $L = 105.03'$

MATCH

BRITTLE

I-2

E-2

E-1

I-3

M-1

M-4

M-4

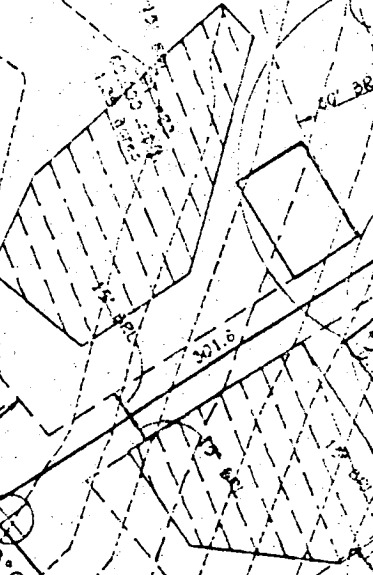
RESERVATION  
PARCEL A  
FOR SUBMISSION

10 TREE MAINT ESMT

10 TREE MAINT ESMT

MEADOWS

10 TREE MAINT ESMT



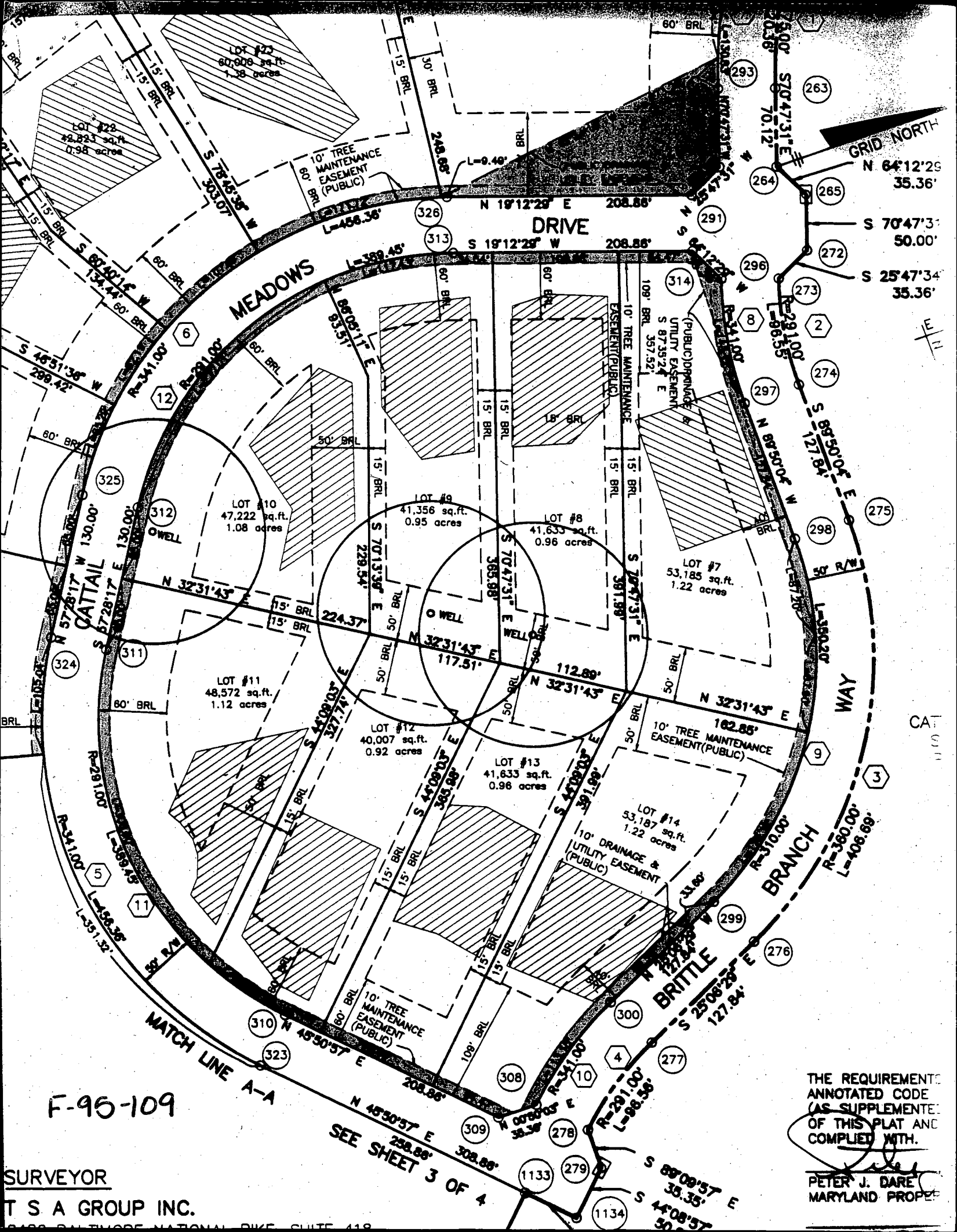
$N 55^{\circ}52'14" W$   
 $320.47'$

$395.00'$

$N 10^{\circ}48'55" E$   
 $310.00'$

$R = 316.00'$   
 $L = 105.03'$

88.00'  
1.50'



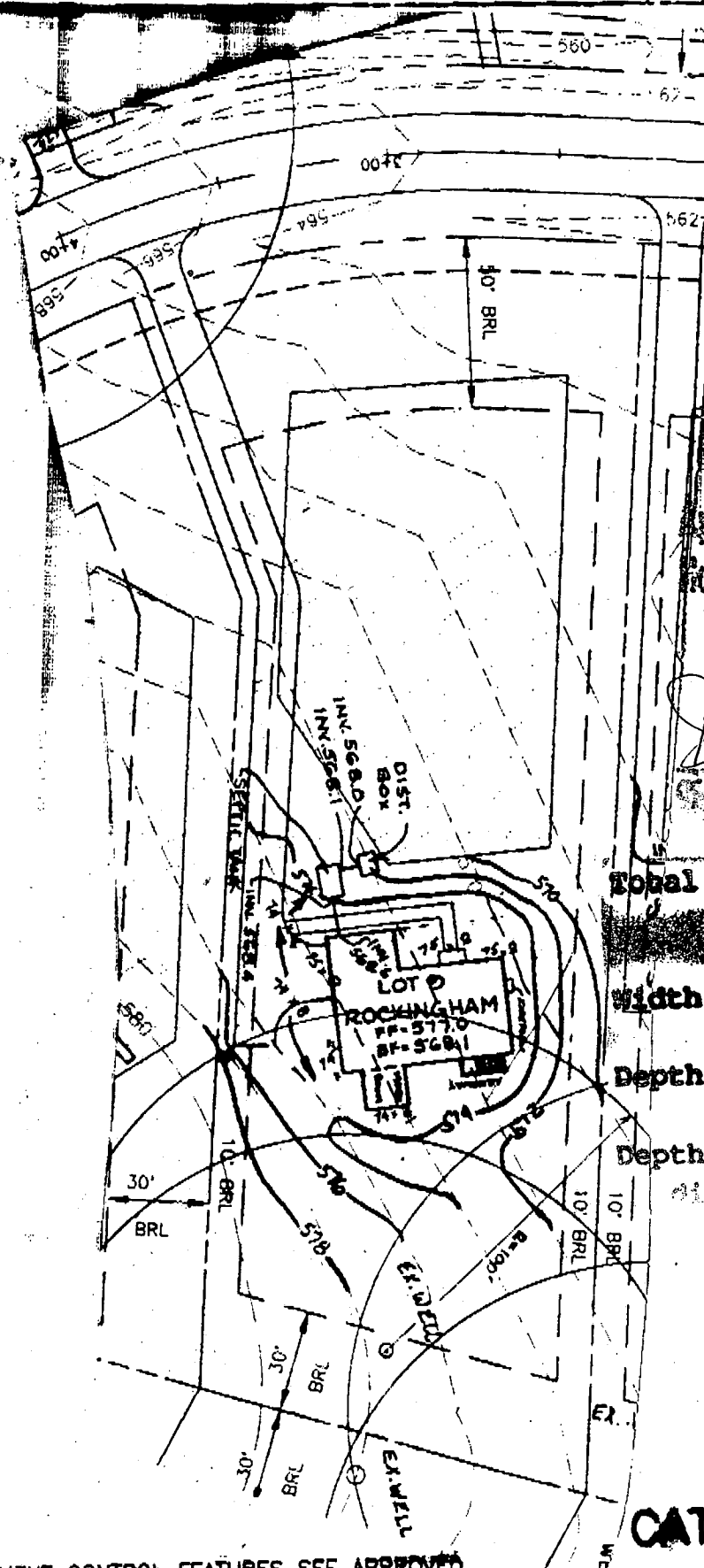
F-95-109

THE REQUIREMENTS ANNOTATED CODE (AS SUPPLEMENTED) OF THIS PLAT AND COMPLIED WITH.

**SURVEYOR**  
**T S A GROUP INC.**

**PETER J. DARE**  
**MARYLAND PROPE**

SEE SHEET 3 OF 4



Approved Septic System Plan  
 Howard County Health Department

*[Handwritten Signature]*  
 Signature

Total linear feet of trench required 200 feet  
 Width of trench(es) 3 feet  
 Depth of trench(es) 6 feet  
 Depth of stone required below distribution pipe 2 feet

FF-571.0  
 SF-568.1

NOTE:  
 FOR SEDIMENT CONTROL FEATURES SEE APPROVED GRADING PLAN GP-97-130.

PLOT PLAN  
**CATTAIL WOODS**

LOT 9  
 SECTION TWO, PARCEL 5

T S A GROUP INC.  
 8480 BALTIMORE NATIONAL PIKE, SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 465 - 6105

TAX MAP NO.7 PARCEL 137  
 PLAT NOS. 12500-12502  
 4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
 SCALE: 1"=50' DATE: FEB. 11, 1998

C1 3523

SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

COUNTY NUMBER A# 49644C

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 031795

Depth of Well 228 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-94-0366

OWNER 206 JOINT VENTURE last name CATTAIL MEADOW DRIVE TOWN LESBON SUBDIVISION CATTAIL WOODS SECTION 2 LOT 9

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), Check if water bearing. Rows include Dirt, Soft Br. Mica, Clay, Soft Shale, Soft Br. Shale, Hard Blue Schist, Fracture, Blue Schist, Opening, Blue Schist.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL CEMENT (CM), BENTONITE CLAY (BC), NO OF BAGS 45, NO OF POUNDS 4230, GALLONS OF WATER 270, DEPTH OF GROUT SEAL 99 ft.

CASING RECORD: casing types insert appropriate code below, MAIN CASING TYPE S T, Nominal diameter 6, Total depth 100.

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

SCREEN RECORD: screen type or open hole insert appropriate code below, SCREEN TYPE ST BR HO, PL OT.

IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY WHERE SATURATED FRACTURES WERE OBSERVED. WELL HYDROFRACTURED (Y) (N)

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 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

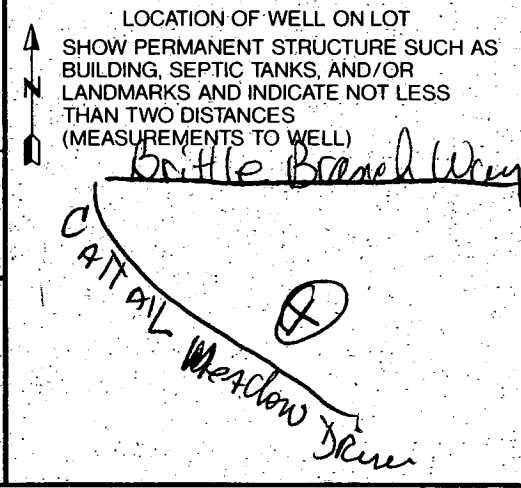
DRILLERS IDENT. NO. 256, DRILLERS SIGNATURE (Dana Kyker Jr II), SITE SUPERVISOR (sign of driller or journeyman responsible for sitework if different from permittee)

DEPTH (nearest ft.) 228, 100, SCREEN SIZES, GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68.

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER), T (E.R.O.S.), W Q (74, 75, 76), TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

PUMPING TEST: HOURS PUMPED 3, PUMPING RATE 10, METHOD USED TO MEASURE PUMPING RATE submersible, WATER LEVEL 42, BEFORE PUMPING 165, WHEN PUMPING 165, TYPE OF PUMP USED (for test) S submersible.

PUMP INSTALLED: DRILLER WILL INSTALL PUMP YES (NO), TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: S, CAPACITY: GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT (circle appropriate box and enter casing height) + above, LAND SURFACE 1 (nearest foot).



**B 1** **823** SEQUENCE NO. (DP USE ONLY)

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

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL  
please print or type

STATE PERMIT NUMBER  
**H0-94-0366**  
fill in this form completely

Date Received (APA) **020195** OWNER INFORMATION

**206** JOINT VENTURE  
Last Name Owner First Name

**15555** UNION CHAPEL  
Street or RFD

**WOODBINE** MD **21141**  
Town State Zip

**B 3** LOCATION OF WELL

**HOWARD** COUNTY

**CATAIL WOODS** SUBDIVISION

SECTION **2** LOT **9**

**21500** NEAREST TOWN

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

DRILLER INFORMATION MSD/MGD/MWD

**Donna K Seel** Driller's Name License No. **256**

**Westminster Rotary Well Drilling** Firm Name

**P.O. Box 86, Westminster, Md 21158** Address

**Donna K Seel** Signature Date **1-31-95**

**B 4** DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

**CATAIL MEADOW DRIVE** NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) **340** DISTANCE FROM ROAD

ENTER FT OR MI **FT**

TAX MAP: **7** BLK: \_\_\_\_\_ PARCEL **137**

**B 2** WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **150**

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** COUNTY NAME **A49644C** COUNTY NO.

STATE SIGNATURE \_\_\_\_\_ DATE ISSUED **022495** SIGNATURE **Donna K Seel** EXP. DATE **2/24/96**

NORTH GRID **542000** EAST GRID **0781000**

APPROXIMATE DEPTH OF WELL **200** FEET

APPROXIMATE DIAMETER OF WELL **6** INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- City**
- 
- 

WRITE THE BOX NUMBER FROM THE MAP HERE

**781**  
**542**

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

**340'**

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-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEAN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) \_\_\_\_\_

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

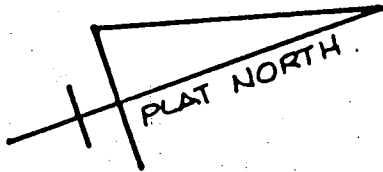
APPROX. PERMIT NUMBER \_\_\_\_\_

FORCE **DS** PERMIT No. **H0-94-0366**

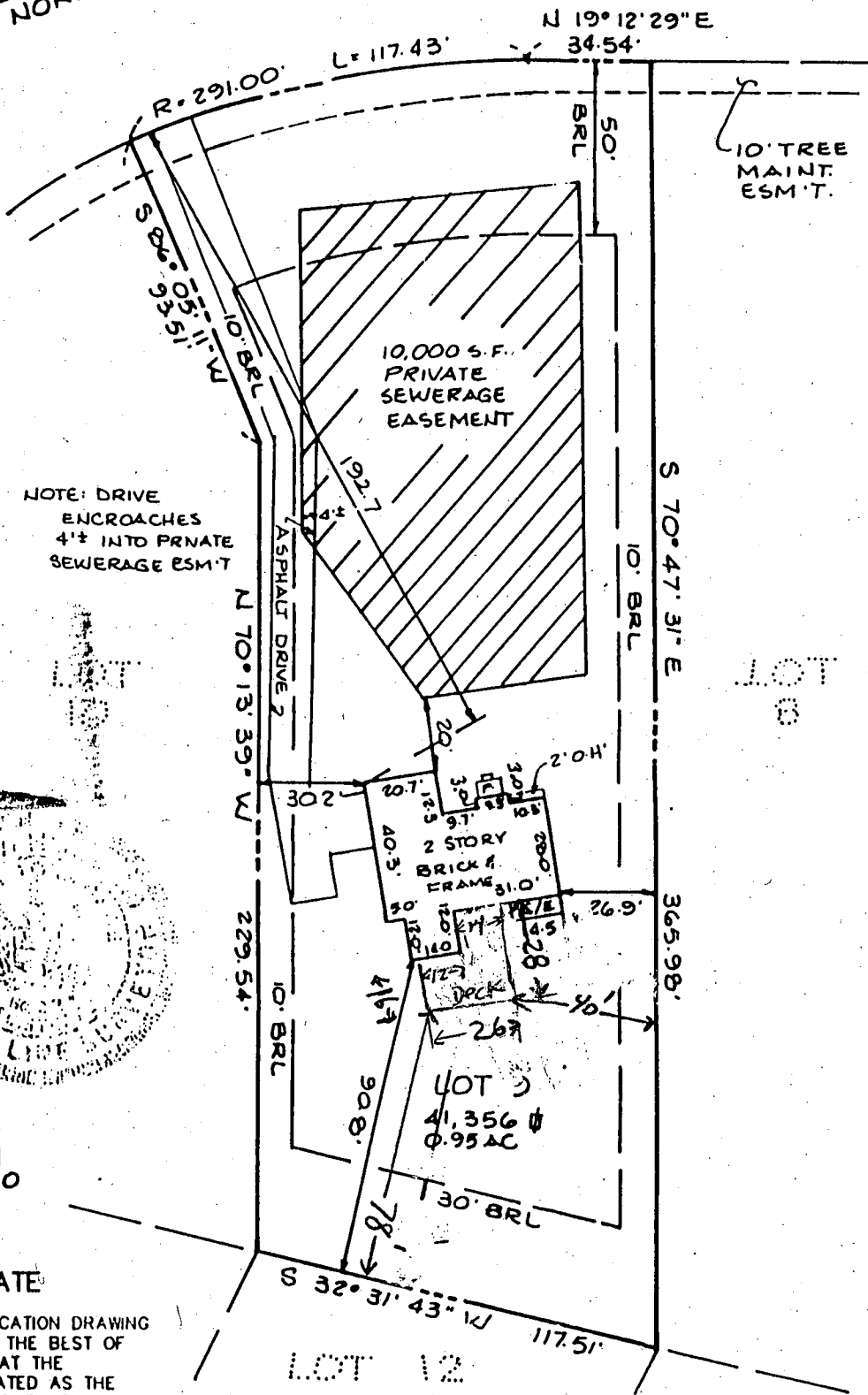
SPECIAL CONDITIONS **Nicki 876-1911** NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =

COUNTY \_\_\_\_\_

THIS LOCATION DRAWING IS OF BENEFIT TO A CONSUMER ONLY INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY, OR ITS AGENTS, IN CONNECTION WITH FINANCING THE PROPERTY SHOWN HEREON. THIS DRAWING IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OF PROPERTY LINES OR THE CONSTRUCTION OF IMPROVEMENTS SUCH AS FENCES, GARAGES, OR BUILDING ADDITIONS. THIS DRAWING SHOWS THE CONFIGURATION AS CURRENTLY RECORDED, BEING SUFFICIENT FOR SETTLEMENT PURPOSES, BUT BEING INSUFFICIENT FOR THE SETTING OF PROPERTY CORNER PINS ON THE GROUND.



CATTAIL MEADOWS DR.



NOTE: DRIVE ENCROACHES 4'± INTO PRIVATE SEWERAGE ESM'T

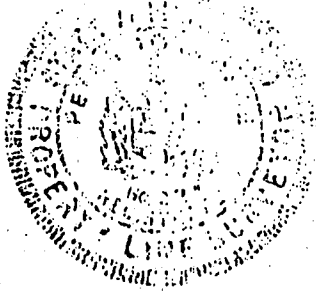
10' TREE MAINT. ESM'T.

REVISED

Date: 3/1/99

Comments: OK

MR



TOP OF FOUNDATION WALL ELEV. = 576.0

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE LOCATION DRAWING SHOWN HEREON IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE IMPROVEMENTS HAVE BEEN LOCATED AS THE RESULT OF A FIELD SURVEY, AND THAT THERE ARE NO VISIBLE ENCROACHMENTS UNLESS SHOWN. THE PROPERTY DOES NOT LIE WITHIN A FLOOD HAZARD AREA ON THE FEMA F.I.R.M. IDENTIFIED BELOW. AT THE WRITTEN REQUEST OF THE PURCHASER, NO PROPERTY CORNER MARKERS HAVE BEEN SET.

*Peter J. Dare* 5-22-98  
 PETER J. DARE MD. PROPERTY LINE SURVEYOR #224 FINAL

RECORD PLAT No. 12497  
 FEMA FIRM No. 240044 0007 B  
 DATED DECEMBER 4, 1986

TSA GROUP, INC.

planning • architecture • engineering • surveying  
 8480 BALTIMORE NATIONAL PIKE SUITE 418  
 ELLICOTT CITY, MARYLAND 21043  
 (410) 465-6105

LOCATION DRAWING  
 CATTAIL WOODS  
 SECTION 2

LOT 9  
 1709 CATTAIL MEADOWS  
 DRIVE

4<sup>th</sup> ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 50' DATE: 3-18-98