

3-20-98
P.M.C.O.
3/23/98
1-2

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

04-359518

P 59855

A 49646-M

DISTRICT 4th

DATE 3-9-98

DATE SYSTEM APPROVED 3/23/98

INSPECTOR JKS

HOWARD COUNTY HEALTH DEPARTMENT

BUREAU OF ENVIRONMENTAL HEALTH

~~XXXX-XXXX~~ 410-313-2640

INDEXED

Fogle's Septic Clean, Inc. IS PERMITTED TO INSTALL ALTER

ADDRESS 558 Obrecht Road Sykesville, Maryland 21784 PHONE (410) 795-5674

SUBDIVISION Cattail Woods, Sec. II LOT 43 ROAD 1733 Cattail Woods Lane

PROPERTY OWNER Pulte Home Corporation

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

210 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 280

*3/20/98 changes
to trench specs
made due to site
conditions*

TRENCHES - Trench to be ³2 feet wide. Inlet ⁴3 feet below original grade. Bottom maximum depth 6 feet below original grade. Effective area begins at 3 feet below original grade. 23 feet of stone below distribution pipe.

LOCATION - Begin trenches 155 feet up the left lot line and 50 feet off that same lot line as seen when facing the lot from Cattail Woods Drive. Run trenches on contour toward the left lot line - trenches to go under the driveway if necessary to maintain a minimum 50ft. trench length.

NOTES - Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank.
OK 3/6/98 A.M.M.

PLANS APPROVED BY Amy McMillen DATE 02/26/98

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

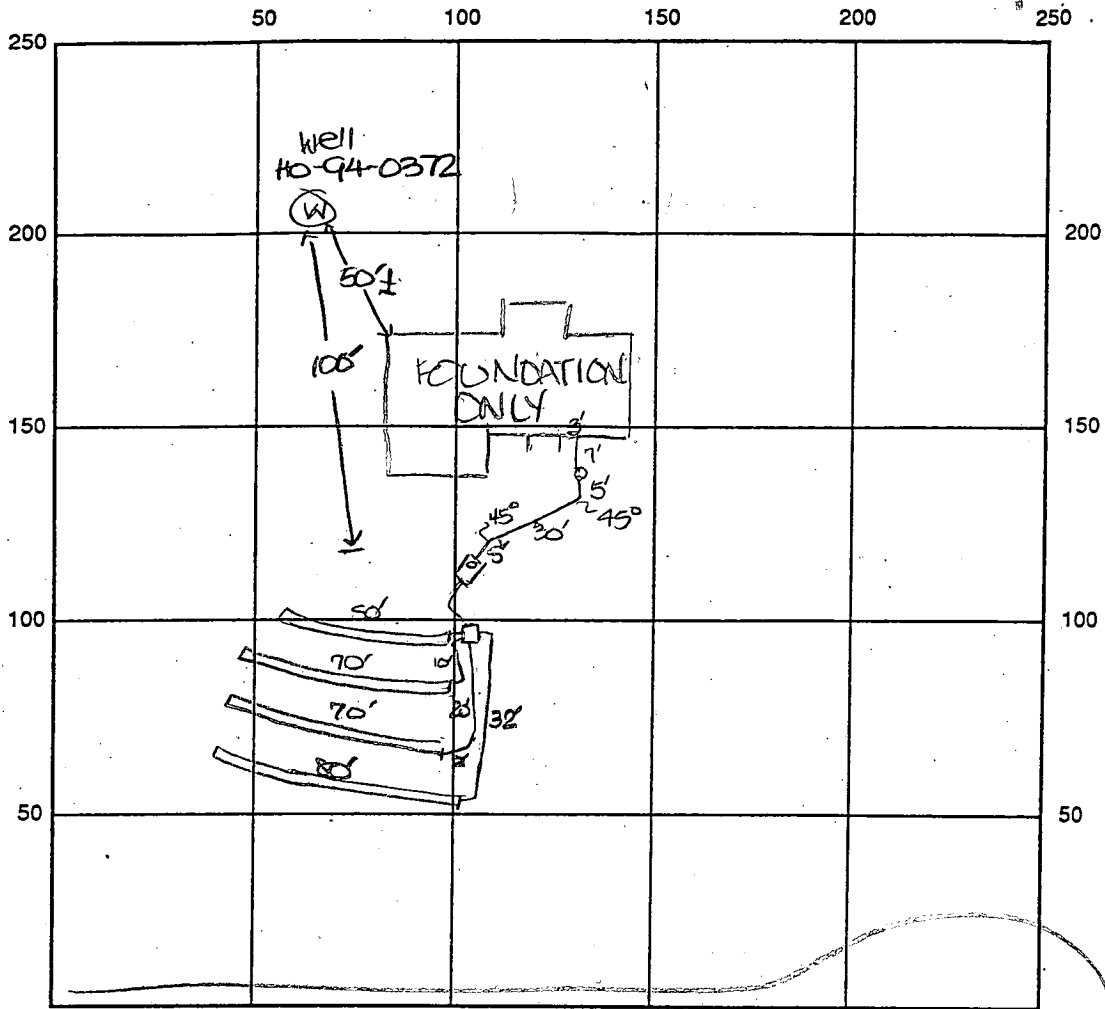
PERMIT VOID AFTER TWO YEARS

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**

A 49646-M



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

Catal Woods Lane

SEPTIC TANK LEVEL OK - 1250 gal

CLEANOUTS one at house, one on s.t.

DISTRIBUTION BOX LEVEL OK

DRAIN FIELD/TITLE DEPTH 6 FT.

TRENCH WIDTH 3 FT.

INLET DEPTH 4 FT.

EFFECTIVE GRAVEL DEPTH 2 FT.

TOTAL LENGTH 270 FT. → 270'

NUMBER OF TRENCHES 4

ONE SIDEWALL/BOTTOM AREA 810 SQ. FT.

DRYWALL INSIDE DIAMETER — FT.

EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 3/20/98 OK to cover from house to septic tank. DKS

3/23/98 OK to continue. DKS

3/23/98 final insp - OK to cover all work. DKS

DATE SYSTEM APPROVED 3/23/98

INSPECTOR [Signature]

APPLICATION

PERCOLATION TESTING

A 49646M

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 Brantle Pulte Home Corporation

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. 43

ROAD AND DESCRIPTION Rt 97 sid (1733 Cattail Woods Lane)

BLDG. PERMIT SIGNED

AND RETURNED 2-26-11

Serial # BR1109971

TAX MAP 7 PARCEL # 137

SIZE OF LOT 1 ACRE TYPE BLDG. SFD - 4 Brms
(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 _____

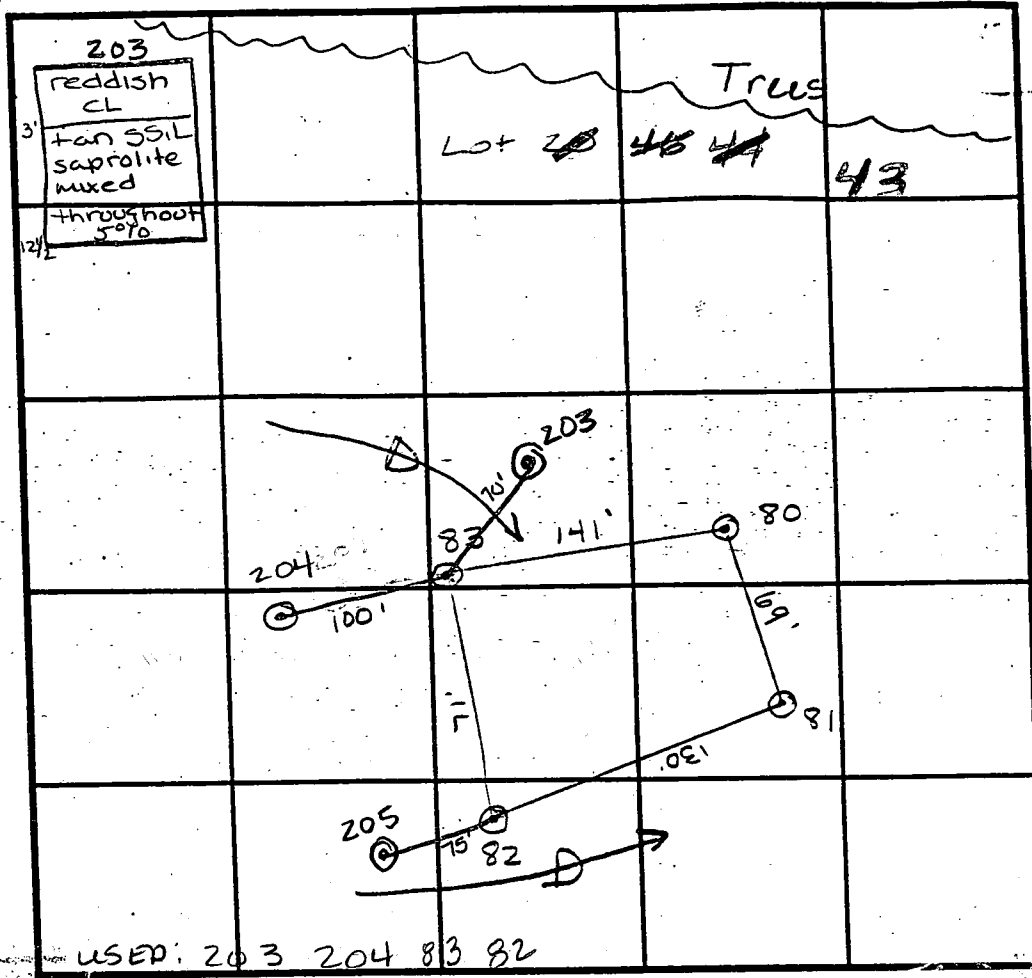
REASONS FOR REJECTION OR HOLDING _____

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

A49646M
COUNTY #



USED: 203 204 83 82
INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE 80
1'0" red C
3' reddish lgt brn SiSL (mica) w/ yellow/tan streaks some Saprolite

81
orange/brn C
4' orange brn SiL some Saprolite
12'

83
3' tan C
tan SSIL
12'

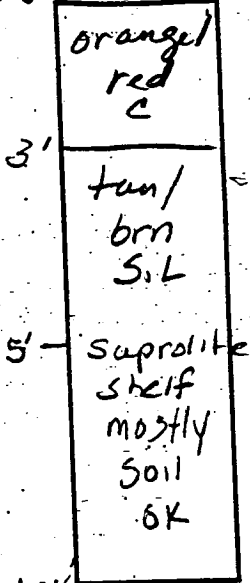
SOIL PROFILE 82
4' brn/red C
brn w/ slight tint of red SiL some Saprolite throughout (OK)
12' 204
3' dk red/brn SiCL
12 1/2' yell/tan SiL
3' 205
13' yell/tan C
orange brn SiCL w/ mica flecks

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/30/93	81	4 1/2' V12'	1:52 ³⁰	1:56 ³⁰	1:56 ³⁰	2:03	6 1/2 min
	80	3' V12'	1:50	1:54	1:54	2:02	8 min
	83	3' V12 1/2'	1:03	1:06	1:06	1:12	6 min
	82	4' V12'	1:00	1:05 ¹⁰	1:05 ¹⁰	1:15	9 3/4 min
3/15/94	wet 203	4' V13'	10:54	10:59	10:59	10:08 ³⁰	9 1/2 min
3/15/94	wet 204	4' V12 1/2'	11:00 ¹⁵	11:05 ³⁰	11:05 ³⁰	11:13	8 1/2 min
3/15/94	wet 205	3' V13'	11:10	11:18	11:18	11:39	21 min

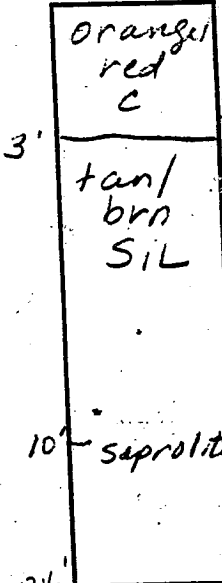
REMARKS: Hold 81-82 for wet season perc
TYPE OF SOIL: Glenelg Loam
TESTED BY: A. McMillan / C. Williams ALSO PRESENT B. SANDERS
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 8 min TRENCH WIDTH 3'
INLET DEPTH 4' MAXIMUM BOTTOM DEPTH 6' SQ. FT./BEDROOM 210 ft²

COUNTY #

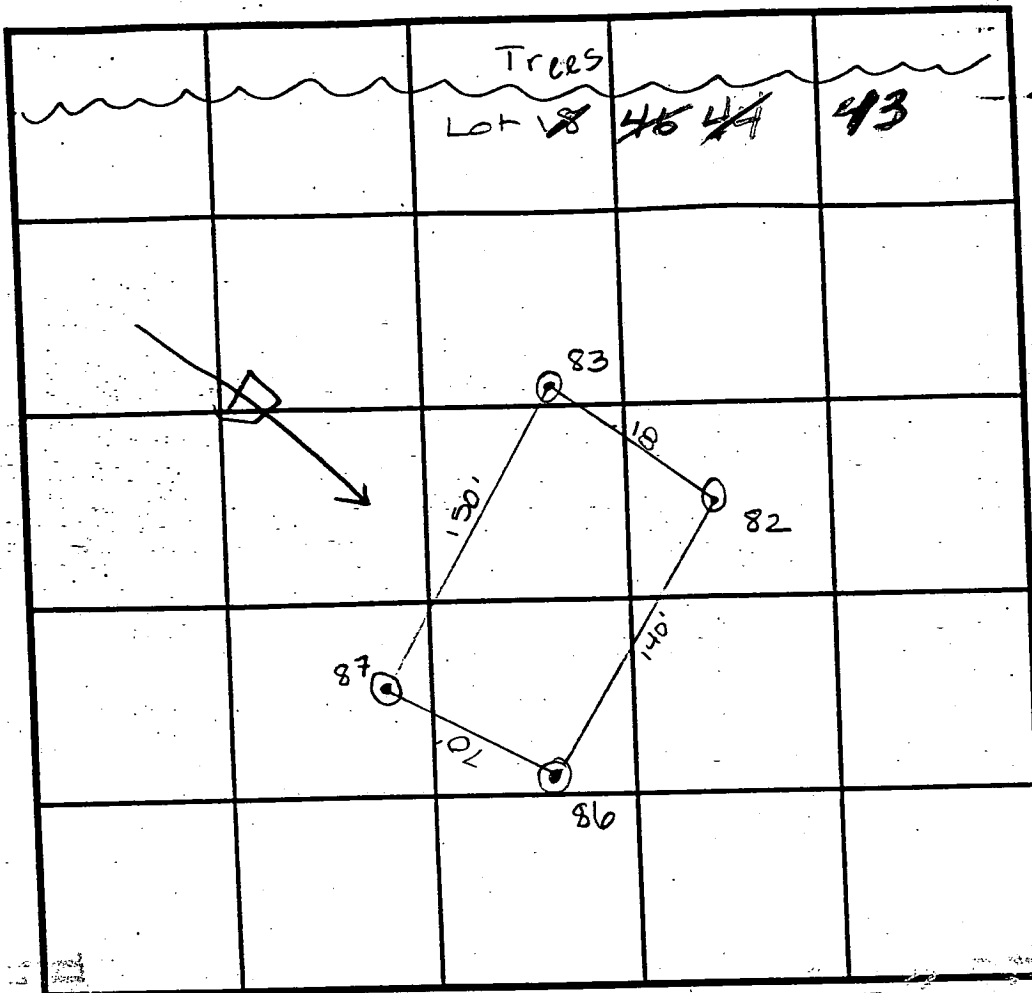
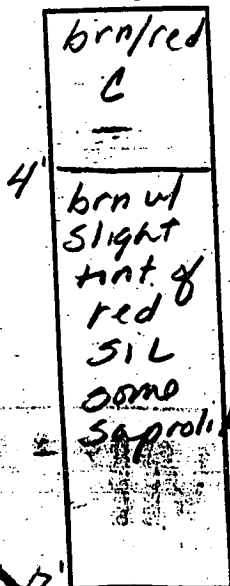
SOIL PROFILE 87



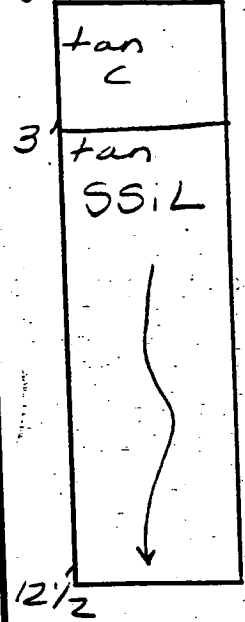
86



82



SOIL PROFILE 83



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11/30/93	87	3' / 12 1/2'	12:22	12:34	12:34	12:46	12 min
	86	3' / 12 1/2'	12:32	12:39	12:39	12:49	9 min
	82	4' / 12'	1:00	1:05 ¹⁵	1:05 ¹⁵	1:15	9 3/4 min
	83	3' / 12 1/2'	1:03	1:06	1:06	1:12	6 min
	87	6 1/2' / 12 1/2'	2:53 ³⁰	2:55 ³⁰	2:55 ³⁰	2:59	3 1/2 min

REMARKS 86-82 wet season perc

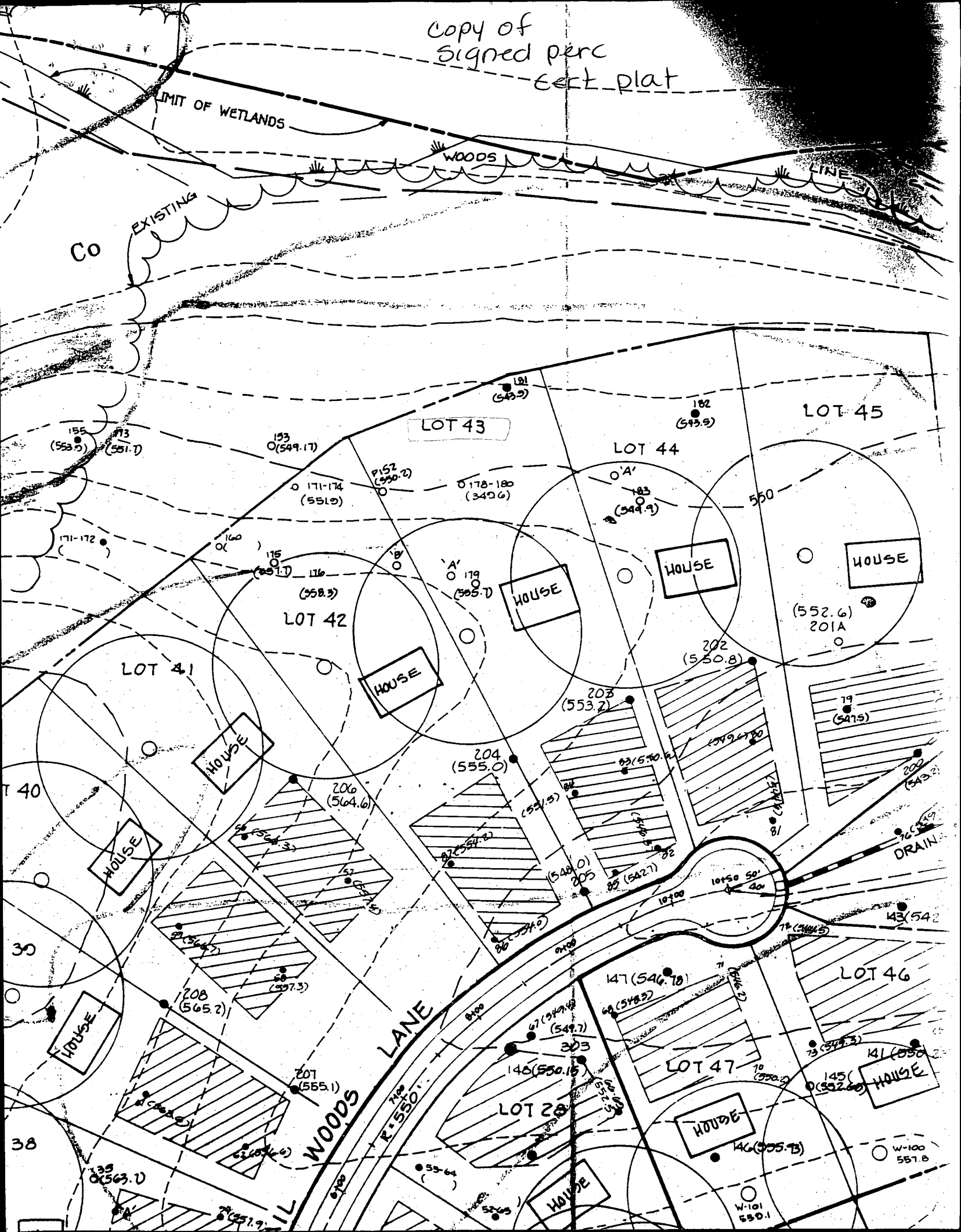
TYPE OF SOIL Glenelg Loam

TESTED BY Amy McMillen / CRAIG WILLIAMS ALSO PRESENT B. SAUNDERS

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 8 min TRENCH WIDTH 3'

INLET DEPTH 20' MAXIMUM BOTTOM DEPTH 40' SQ. FT./BEDROOM 210 ft²

Copy of
Signed perc
cert plat

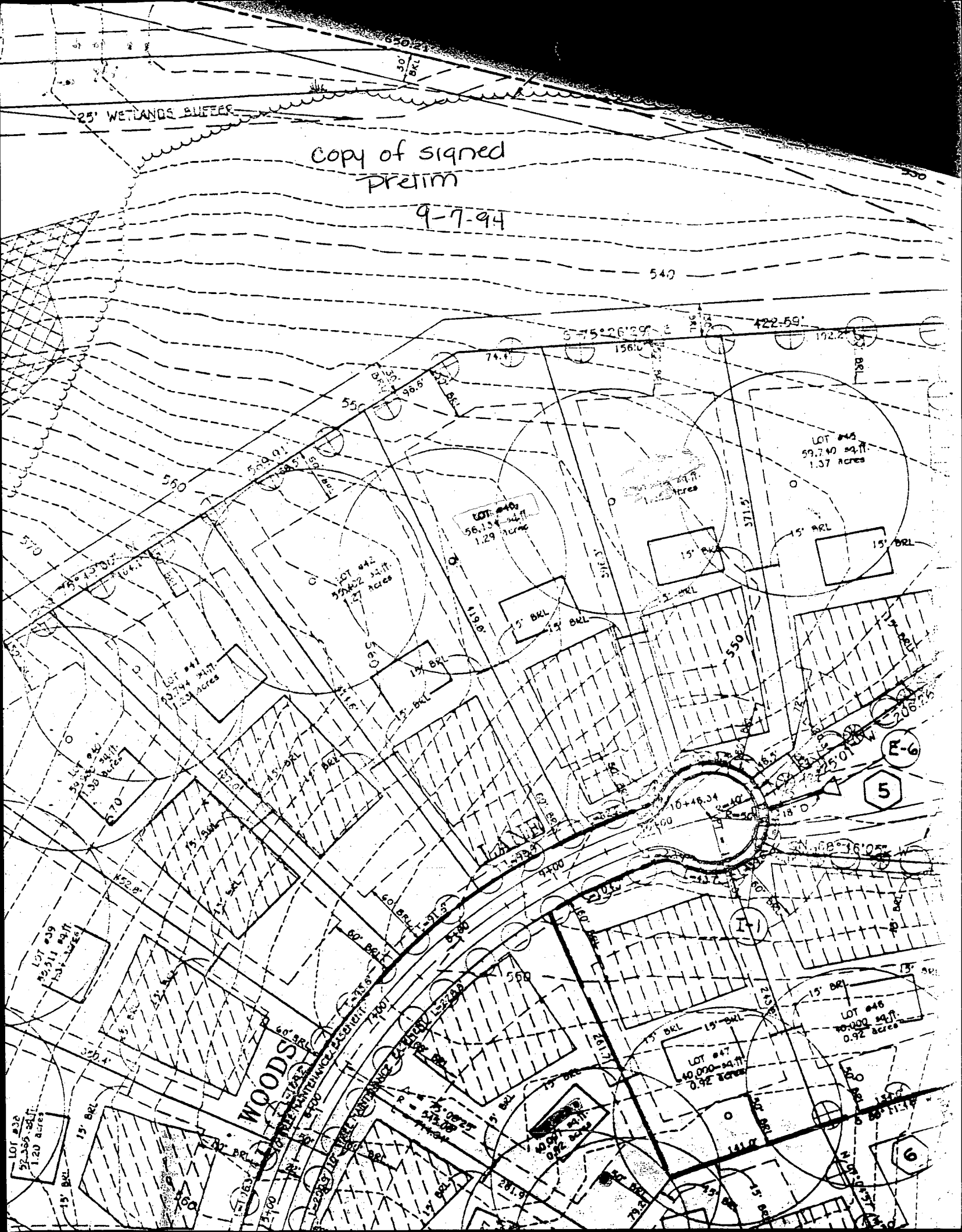


25' WETLANDS BUFFER

copy of signed
prelim

9-7-94

540



PROPERTY OF LISBON ESTATES
PLAT NO. 9447-9449
ZONED RC

LOT 3

LOT 2

N 19°40'20" E
233.30'

1587.07'

LOT #38
51,351 sq.ft.
1.18 acres

LOT #39
58,508 sq.ft.
1.34 acres

LOT #40
59,928 sq.ft.
1.38 acres

LOT #41
54,108 sq.ft.
1.24 acres

LOT #42
55,081 sq.ft.
1.26 acres

LOT #43
56,137 sq.ft.
1.29 acres

LOT #44
50,298 sq.ft.
1.15 acres

LOT #47
40,042 sq.ft.
0.92 acres

LOT #48
40,033 sq.ft.
0.92 acres

LOT #45
59,747 sq.ft.
1.37 acres

LIMIT OF EX. 100 YEAR
FLOOD-PLAIN DRAINAGE
AND UTILITY EASEMENT (0.56

P.O. PRESERVA
SINGLE RESIDENC
AGRIC
PRESERVATI
TOTAL ARE
AREA THIS

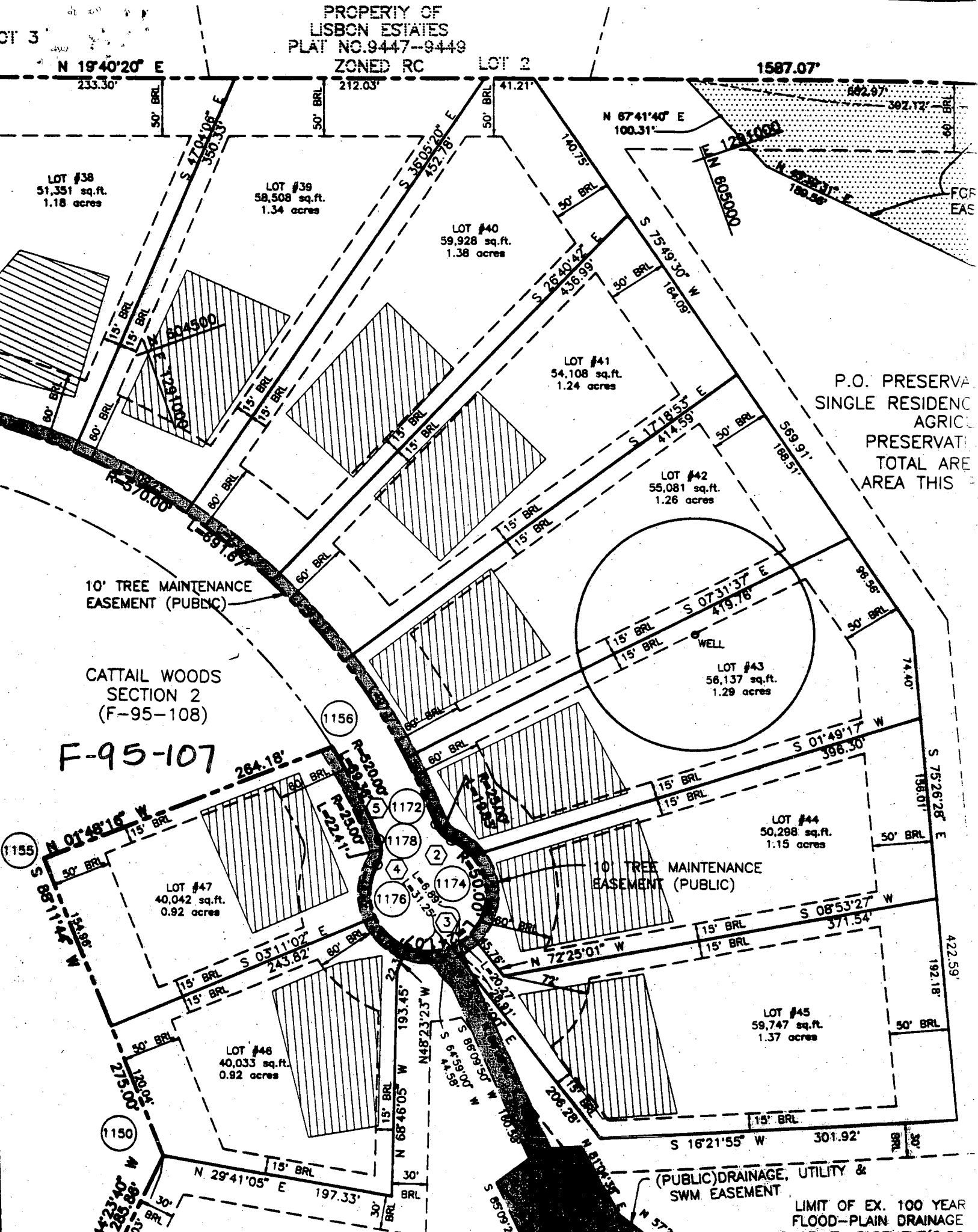
10' TREE MAINTENANCE
EASEMENT (PUBLIC)

CATTAIL WOODS
SECTION 2
(F-95-108)

F-95-107

10' TREE MAINTENANCE
EASEMENT (PUBLIC)

(PUBLIC) DRAINAGE, UTILITY &
SWM EASEMENT



C1 3551

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 COLUMNS 3-6 ON ALL CARDS)

COUNTY NUMBER A# 49646M

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

031745

030395

302

H0-94-0372

OWNER 206 JOINT VENTURE last name CATTAIL WOODS first name WOOD TOWN LISBON SUBDIVISION CATTAIL WOODS SECTION 2 LOT 43

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 Dirt, Soft Br. Mica, Clay, Hard Blue Schist, etc.

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL CEMENT BENTONITE CLAY NO. OF BAGS 30 NO. OF POUNDS 2820

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min. to nearest gal.) 4 METHOD USED TO MEASURE PUMPING RATE submersible WATER LEVEL (distance from land surface) BEFORE PUMPING 22 WHEN PUMPING 223 TYPE OF PUMP USED (for test) S submersible

CASING RECORD

ST CO STEEL CONCRETE PL OT PLASTIC OTHER MAIN CASING TYPE S T Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 86

OTHER CASING (if used)

Table for other casing with columns for diameter and depth.

SCREEN RECORD

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

IN HARD ROCK AREAS, IDENTIFY SPECIFICALLY WHERE SATURATED FRACTURES WERE OBSERVED.

WELL HYDROFRACTURED Y N

DEPTH (nearest ft.)

Table for screen depth with columns for depth intervals and slot size.

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (CIRCLE) (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)

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)

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. 256 DANA KYKER JR II

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q LOG INDICATOR OTHER DATA

B 1 7832

SEQUENCE NO. (DP USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER H0-94-0372

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

please print or type

fill in this form completely

Date Received (APA)

020195

OWNER INFORMATION

2106 JOINT VENTURE

15 Last Name Owner First Name 34

36 STREET OR RFD 55 WOODBINE

57 Town 70 State 72 216 96

DRILLER INFORMATION MSD/MGD/MWD

Driller's Name Dana Kyle II License No. 80

Firm Name Westminster Rotary Well Drilling

Address 20300 Westminster, Md 21158

Signature Date Dana Kyle II 13195

B 3

LOCATION OF WELL

1 HOWARD 21

8 COUNTY 21 CATTAIL WOODS 42

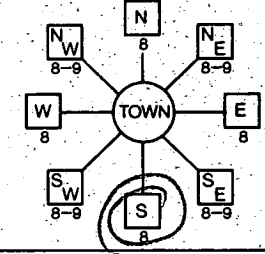
23 SUBDIVISION 42 SECTION 2 44 46 LOT 43 46 50

52 NEAREST TOWN LISBON 71

MILES FROM TOWN (enter 0 if in town) 1 73 MI 76 77 78

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



CATTAIL WOODS LANE 30

NEAR WHAT ROAD

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) WEST EAST SOUTH

34 275 37 DISTANCE FROM ROAD

ENTER FT OR MI FT TAX MAP: 7 BLK: PARCEL 137

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 150

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#49646M COUNTY NAME COUNTY NO.

STATE SIGNATURE DATE ISSUED INSERT S

022495 Dana K See 2/24/96 43 48 CO SIGNATURE EXP. DATE

NORTH GRID 542000 EAST GRID 0781000 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

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 - CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEM AN EXISTING WELL
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)

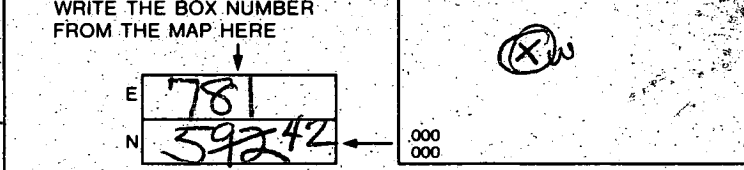
Not to be filled in by driller (OEP USE ONLY) APPROX. PERMIT NUMBER GAP

FORCE DS WRITE INITIALS IN BOX PERMIT No. H0-94-0372

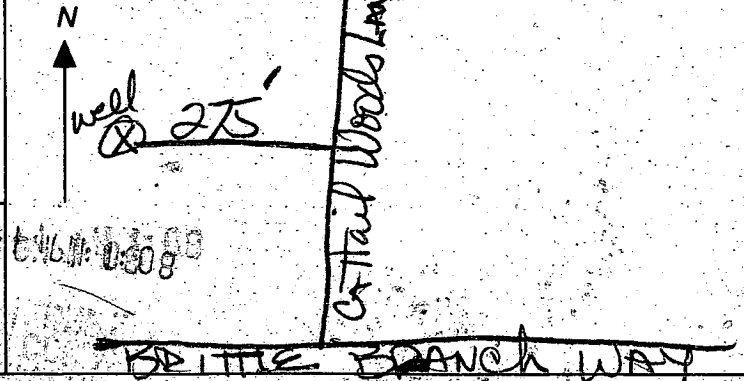
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER 1. City

WRITE THE BOX NUMBER FROM THE MAP HERE

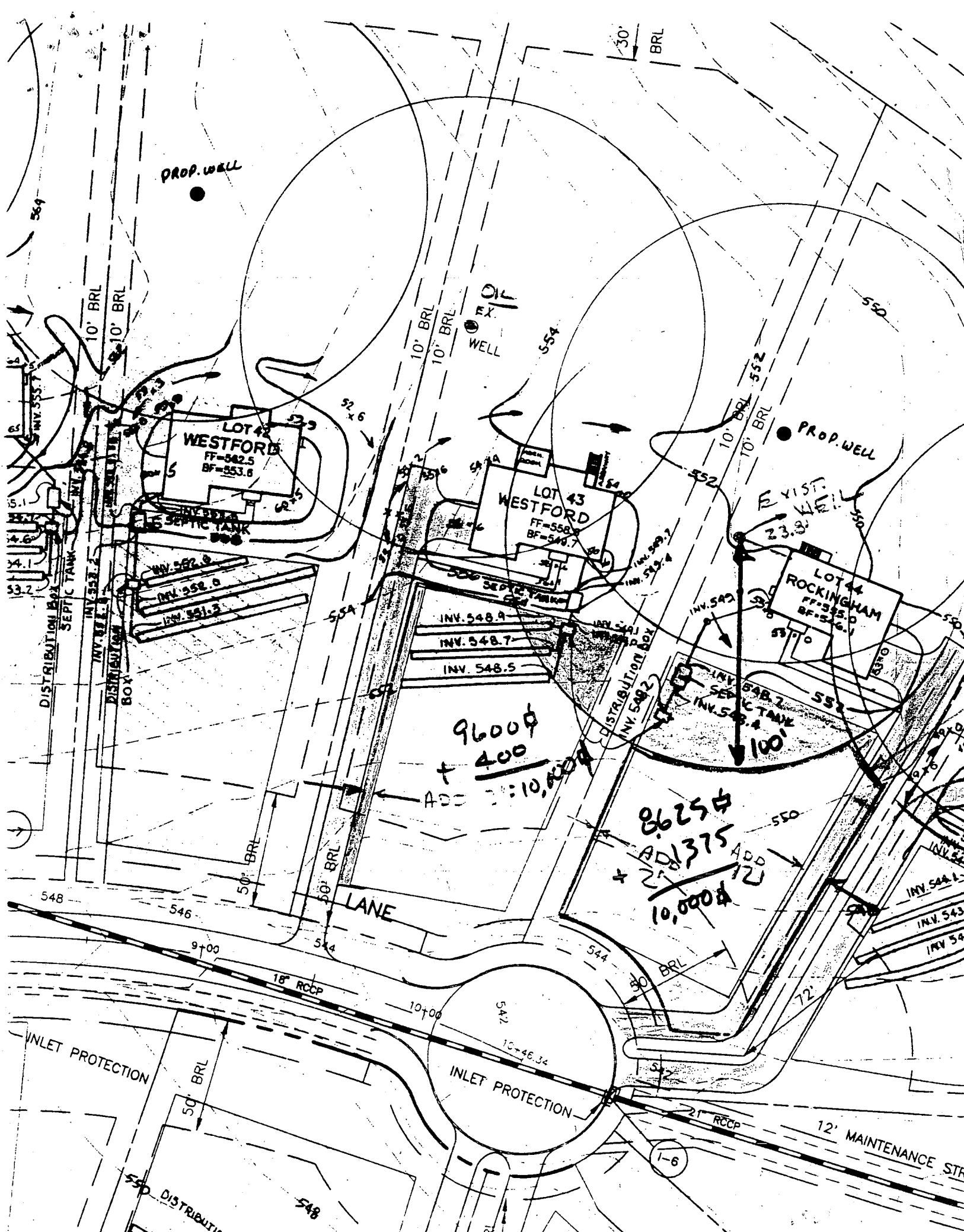


DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS Nick 876-1911

NOTE = APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED =



PROP. WELL

LOT 42
WESTFORD
FF=542.5
BF=553.6

LOT 43
WESTFORD
FF=558.0
BF=549.7

LOT 44
ROCKINGHAM
FF=555.0
BF=546.1

9600
+ 400
= 10,000

8625
+ 1375
= 10,000

LANE

INLET PROTECTION

12' MAINTENANCE STR

Approved Septic System Plan
Howard County Health Department

Required 2.80 feet

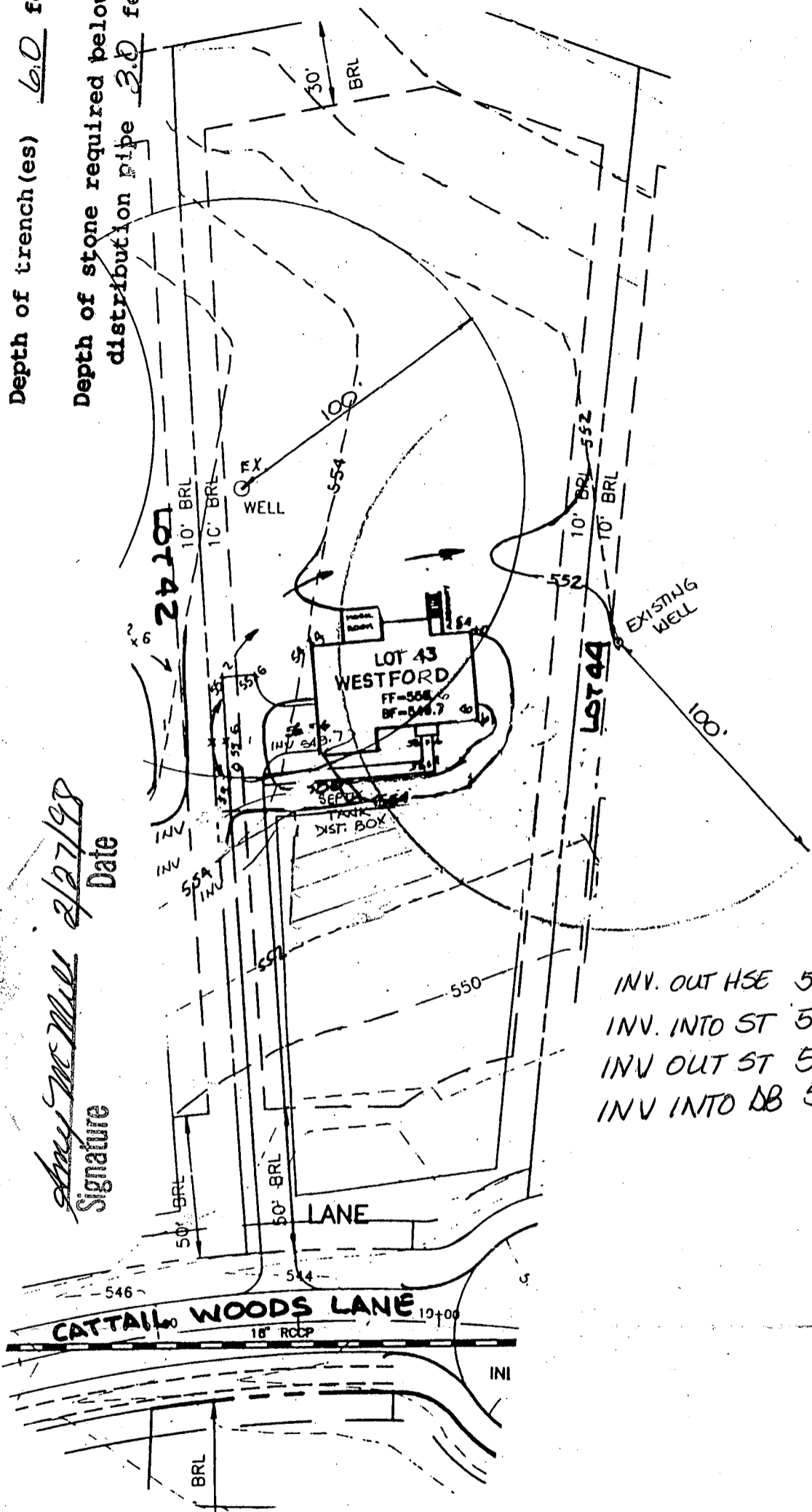
Width of trench(es) 3.0 feet

Depth of trench(es) 6.0 feet

Depth of stone required below
distribution pipe 3.0 feet

Amy McMill
Signature

2/27/98
Date



INV. OUT HSE 550.7
INV. INTO ST 550.4
INV OUT ST 550.1
INV INTO DB 550.0

NOTE:

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

REV. 11-26-97 SEPTIC AREA & WELL LOCATION

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

PLOT PLAN
CATTAIL WOODS
LOT 43
SECTION TWO, PARCEL 5
TAX MAP NO.7 PARCEL 137
PLAT NOS. 12500-12502
4TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
SCALE: 1"=50' DATE: JULY 21, 1997