

PERMIT

03-322459

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 510186-A

A 50617-S

DISTRICT 3rd

DATE 6-8-98

DATE SYSTEM APPROVED 6.25.98

INSPECTOR *[Signature]*

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
~~XXXXXXXXXX~~ 410-313-2640

605.98 \$180. FEE
PAID BY CHECK
#8500 *[Signature]*

INDEXED

Arnold Backhoe & Septic Services IS PERMITTED TO INSTALL ALTER

ADDRESS P.O. Box 15, Woodbine, MD 21797 PHONE 410-795-7873

SUBDIVISION Woodford's Grant LOT 43 (23) ROAD 11333 Barley Field Way

PROPERTY OWNER ~~Trinity Custom Homes, Inc.~~ Gavazzi

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 240

TRENCHES - Trench to be 3 feet wide. Inlet 2 feet below original grade. Bottom maximum depth 4 feet below original grade. Effective area begins at 2 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Begin trenches 30 feet up the left (131.59') lot line and 100 feet off that same lot line as seen when facing the lot from Barley Field Way. Run trenches on contour in both directions.

NOTES - 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 Donna K. Soe DATE 04/03/98

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) **BUILDING PERMIT SIGNED AND RETURNED**

NOTE: NO DRY WELL SHALL EXCEED 15 FOOT IN DIAMETER NO ABSORPTION TRENCH TO EXCEED 100 FEET IN LENGTH *8/7/2002 30013 7868 HOT TUB*

NOTE: ALL PIPE FROM HOUSE TO SEPTIC TANK MUST BE CAST IRON OR SCHEDULE 35/40 PVC OR ABS

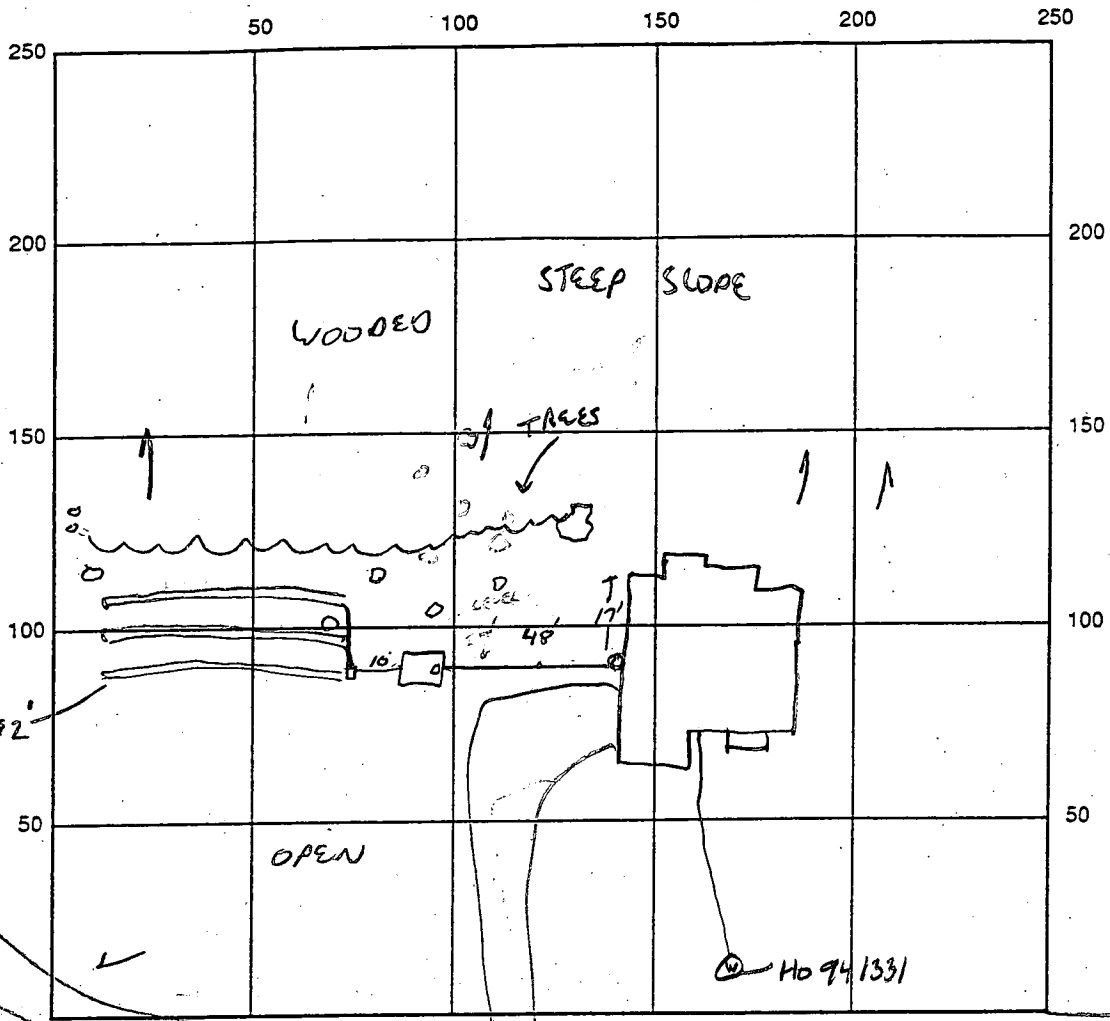
PERMIT VOID AFTER TWO YEARS

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 50617S



SEPTIC TANK LEVEL ok, 1250 GAL CLEANOUTS AT HOUSE 1 ON TANK

DISTRIBUTION BOX LEVEL ok LEVELERS INSTALLED, PRE-CAST 17" KELE

DRAIN FIELD/TITLE DEPTH 4 FT. TRENCH WIDTH 3 FT. INLET DEPTH 2 FT.

EFFECTIVE GRAVEL DEPTH 2 FT. TOTAL LENGTH 3 x 80 FT. = 240

NUMBER OF TRENCHES 3 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET — FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 6.25.98 CANTOR DIFFICULT - TREES IN PORTION OF SOA - NO NEED TO REMOVE NOW
OK TO INSTALL 3-80 TRENCHES ALONG CANTOR TOWARDS THE 101.59' LOT LINE.
1-4" HIGH TRENCHES MAY RUN AT OR OF SOA SLIGHTLY. 1-2" EACH 31' PRIOR TO ST. 11
6.25.98 FINAL - COVER ALL WORK. 11
6.26.98 WELL LINE OK TO COVER, 3' BELOW GRADE. 11

DATE SYSTEM APPROVED 6-25-98 INSPECTOR [Signature]

APPLICATION

PERCOLATION TESTING

A 506.17-5
P _____

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

DISTRICT _____
DATE 3-30-95

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 Thomas Powell c/o Land Design & Development, Inc. Trinity Custom Homes

ADDRESS 10805 Hickory Ridge Rd., Columbia 21044 PHONE (410) 740-2100

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Powell Property LOT NO. 2543

ROAD AND DESCRIPTION off of Marriottsville Road, Howard County, MD

(11333 BARLEY FIELD WAY)

TAX MAP 10 PARCEL # 27, 29, 151

BLDG. PERMIT SIGNED

AND RETURNED 4-3-98

Serial # B0110745

SIZE OF LOT 40,000 sq. ft. TYPE BLDG. single family home - 4 Bdr
(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]
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

BLDG. PERMIT SIGNED

AND RETURNED 6-1-98

Serial # B0111928
duch

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

A50617-S

COUNTY #

LOT 16

1055 SOIL PROFILE

0' 1054

brn
3L
mica

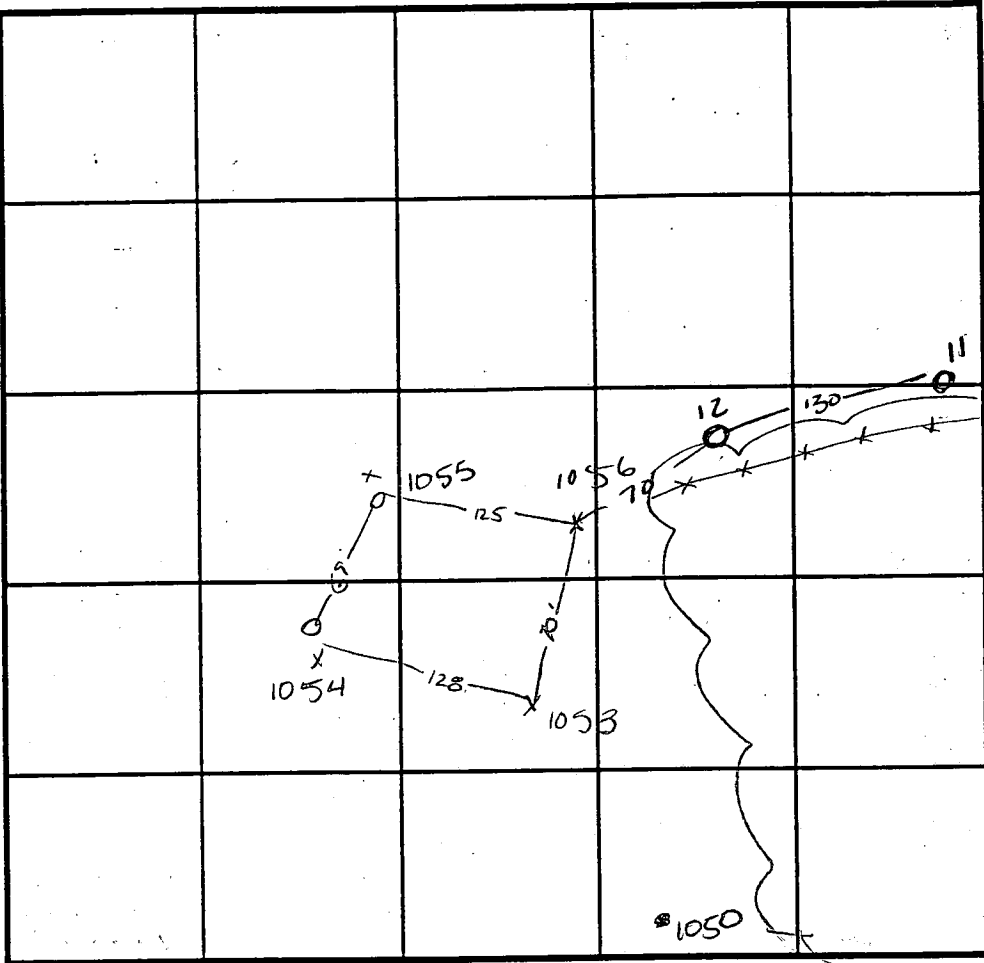
5'

grey/
brn
mica
loam

<5%
shale

SOIL PROFILE

0'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

1056

brn
cl

2'

brn
SSIL
mica

5'

brn/
grey
mica
loam

<5%
Saprolite

12'



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
12-1-94	1054	2.5 V10	6:11 ³⁰	6:11 ⁴⁵	6:11 ⁴⁵	6:12 ¹⁵	15sec
	1054	repour	6:13 ³⁰	6:13 ³⁰	6:13 ³⁰	6:14 ¹⁵	45sec
	1055	2.5 V12	6:19 ⁴⁰	6:20	6:20	6:20 ²⁰	20sec
	1055	repour	6:21 ³⁰	6:22	6:22	6:23	1min
	1055	7.5 V12	6:32 ³⁰	6:33 ¹⁵	6:33 ¹⁵	6:34 ⁴⁵	1 1/2 min
	1056	Visual to 12'	—————		—————		OK
	1053	2' V10	6:38 ¹⁰	6:38 ³⁰	6:38 ³⁰	6:39 ¹⁰	20sec
	1053	repour	6:40 ⁴⁵	6:40 ⁴⁵	6:40 ⁴⁵	6:42	1 1/4 min

REMARKS _____

TYPE OF SOIL _____

TESTED BY Amy McMillen ALSO PRESENT Olan Ketterman

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2 min TRENCH WIDTH 3'

INLET DEPTH 2' MAXIMUM BOTTOM DEPTH 4 SQ. FT./BEDROOM 180 ft²

COUNTY #

SOIL PROFILE

1050

brn
Cl Salm

SOIL PROFILE

Empty vertical box for soil profile notes.

Large empty grid for field notes or diagrams.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

2.5'

lgt tan
Sa Silm
mica
very
powdery
<5%
rock
frag

12'

11-12

no distinct
clay
layer
dark
brn
Salm

micaceous
20%
saprolite

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-30-95	1050	3' / V12'	7:09 ³⁰	7:10	7:10	7:10 ¹⁵	15 sec
	1050	repour	7:10 ⁴⁵	7:11 ¹⁵	7:11 ¹⁵	7:12	45 sec
	1050	repour	7:12 ²⁰	7:13	7:13	7:14	1 min
5-10-95	11	35' / V11'	2:22	2:22 ⁴⁵	2:22 ⁴⁵	2:23 ⁴⁵	1 min
	11	repour	2:24 ¹⁵	2:25 ³⁰	2:25 ³⁰	2:27	1 1/2 min
	11	repour	2:28	2:32	2:32	2:39	7 min
	12	3' / V12'	2:52	2:52 ⁴⁵	2:52 ⁴⁵	2:53 ³⁰	45 sec
	12	repour	2:53 ⁴⁵	2:53 ⁴⁵	2:53 ⁴⁵	2:55	1 1/4 min
	12	repour	2:55	2:56 ¹⁵	2:56 ¹⁵	2:57 ⁴⁵	1 1/2 min
	12	repour	2:58 ¹⁵	3:00	3:00	3:02	2 min

REMARKS Tests 11 & 12 done in 12"x12" test pits 25% slope begins where??

TYPE OF SOIL _____

TESTED BY Amy McMillan ALSO PRESENT _____

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

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

COUNTY NUMBER A506175

PLEASE PRINT OR TYPE

ST/CO USE ONLY
DATE RECEIVED
MS 2/29/98

DATE WELL COMPLETED
03 16 98

Depth of Well
405'
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
HO-94-1331

OWNER TBI Homes
STREET OR RFD Barkley Field Way TOWN Marietta
SUBDIVISION Woodford Grant SECTION 22 LOT 43

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	
Sandy	2	11	
Sand Stone	11	15	
Micka	15	30	
Sand Stone	30	35	
Micka	35	405	

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES NO

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT BENTONITE CLAY BC

NO. OF BAGS 48 NO. OF POUNDS 800

GALLONS OF WATER 48

DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 20 ft.
(enter 0 if from surface)

CASING RECORD

cases types insert appropriate code below

ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER

MAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 22

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 HO OPEN HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)

HO 20 405

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES NO

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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MSD 116
DRILLERS SIGNATURE [Signature]

LIC. NO. MSD 117
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

SLOT SIZE 1 _____ 2 _____ 3 _____
DIAMETER OF SCREEN (NEAREST INCH) 56 60
from _____ to _____

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T _____ (E.R.O.S.) W Q _____
70 _____ 72 _____ 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 6

PUMPING RATE (gal. per min.) 2

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 30 ft.

WHEN PUMPING 210 ft.

TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED

DRILLER WILL INSTALL PUMP (CIRCLE) (YES OR NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

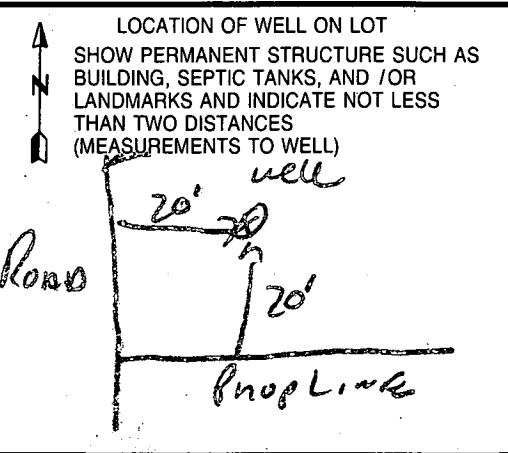
TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 29

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
 - below } 2 (nearest foot)



B 1 SEQUENCE NO. (MDE USE ONLY)
 8766
 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

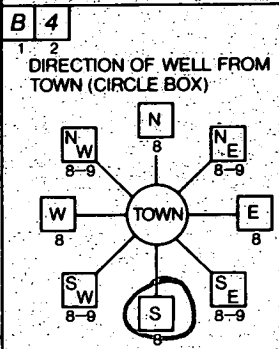
STATE OF MARYLAND
 PERMIT TO DRILL WELL
 please print or type

STATE PERMIT NUMBER
 40-94-1331
 fill in this form completely

B 2 OWNER INFORMATION
 Date Received (APA) 11/13/97
 Owner: T.B. HOMES INC.
 First Name: T.B. Last Name: HOMES
 Street or RFD: 6212 DEWON DR.
 Town: COLUMBIA MD 21044

B 3 LOCATION OF WELL
 COUNTY: HOWARD
 SUBDIVISION: WOODFORDS GRANT
 SECTION: 44 LOT: 43
 NEAREST TOWN: MANNIOTT SVILLE
 MILES FROM TOWN: 1 MI

DRILLER INFORMATION
 Driller's Name: RALPH MAYNE
 License No. 80: 116
 Firm Name: RALPH MAYNE WELL DRILLING
 Address: 910 BROWN CHURCH RD. MT AIRY
 Signature: R.M. Mayne Date: NOV 11 1997



NEAR WHAT ROAD: BARLEYS FIELDS WAY
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): WEST
 DISTANCE FROM ROAD: 20 FT
 TAX MAP: _____ BLK: _____ PARCEL: _____

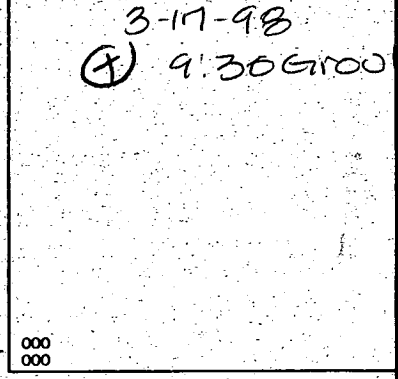
B 2 WELL INFORMATION
 APPROX. PUMPING RATE (GAL. PER MIN.): 5
 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY): 500

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME: Howard Co. COUNTY NO: A50617S
 STATE SIGNATURE: _____ DATE ISSUED: 11/18/97
 CO SIGNATURE: A.M. Milten EXP. DATE: 11/18/98
 NORTH GRID: 546000 EAST GRID: 0828000

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: 150 FEET
 APPROXIMATE DIAMETER OF WELL: 6" NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
 SOURCES OF DRILLING WATER
 1. well
 WRITE THE BOX NUMBER FROM THE MAP HERE
 828
 546046

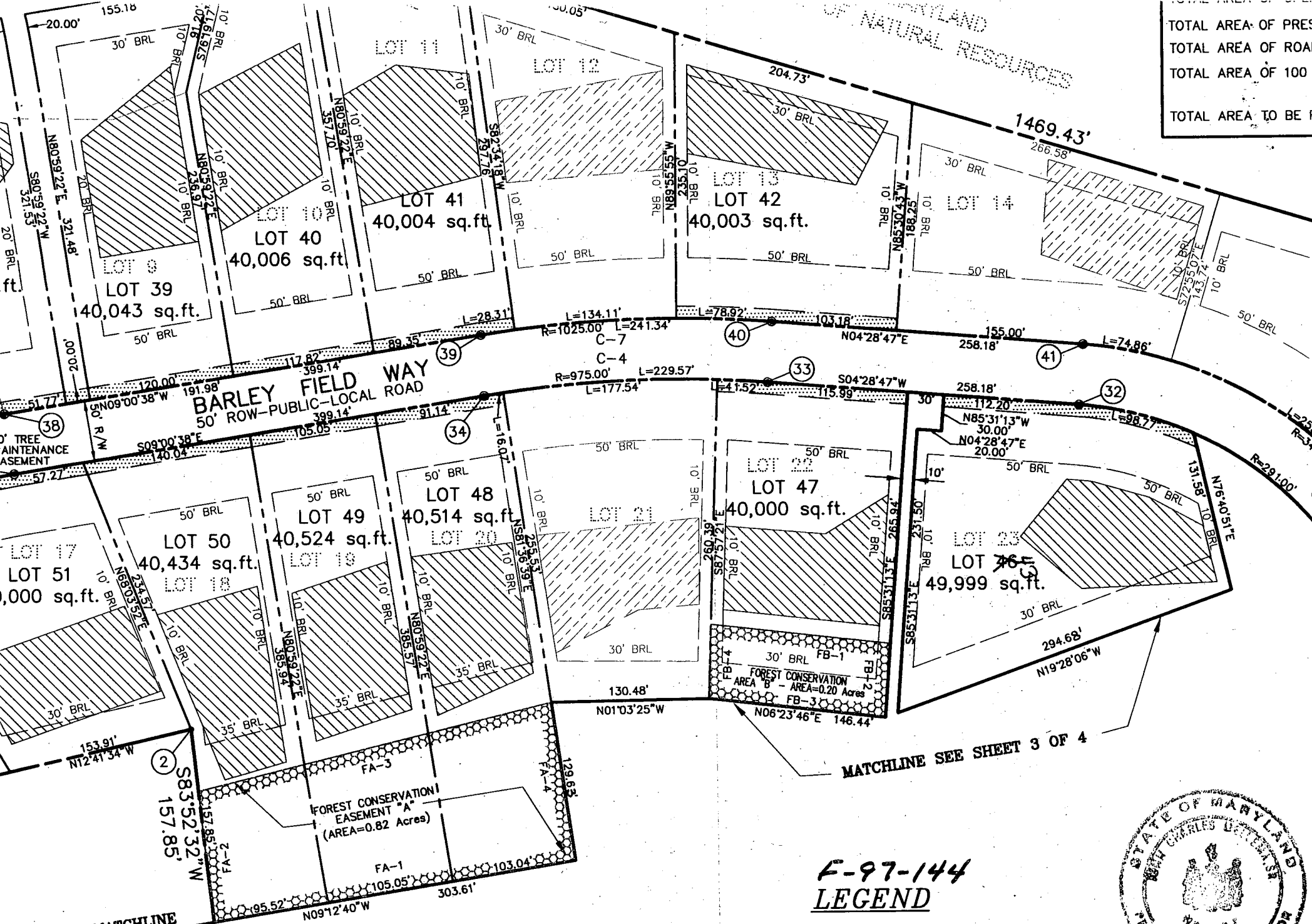


METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
 CABLE REVERSE-ROTARY DRIVE-POINT
 other: _____

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 DEEPEM AN EXISTING WELL.
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE): _____

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER: _____ GAP _____
 FORCE AM PERMIT No. 40-94-1331

SPECIAL CONDITIONS
 NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED -

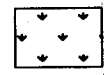


TOTAL AREA OF PRES
 TOTAL AREA OF ROA
 TOTAL AREA OF 100
 TOTAL AREA TO BE F

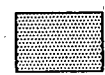
MATCHLINE SEE SHEET 3 OF 4

MATCHLINE
 SEE SHEET 3 OF 4

F-97-144
LEGEND



DENOTES WETLANDS.



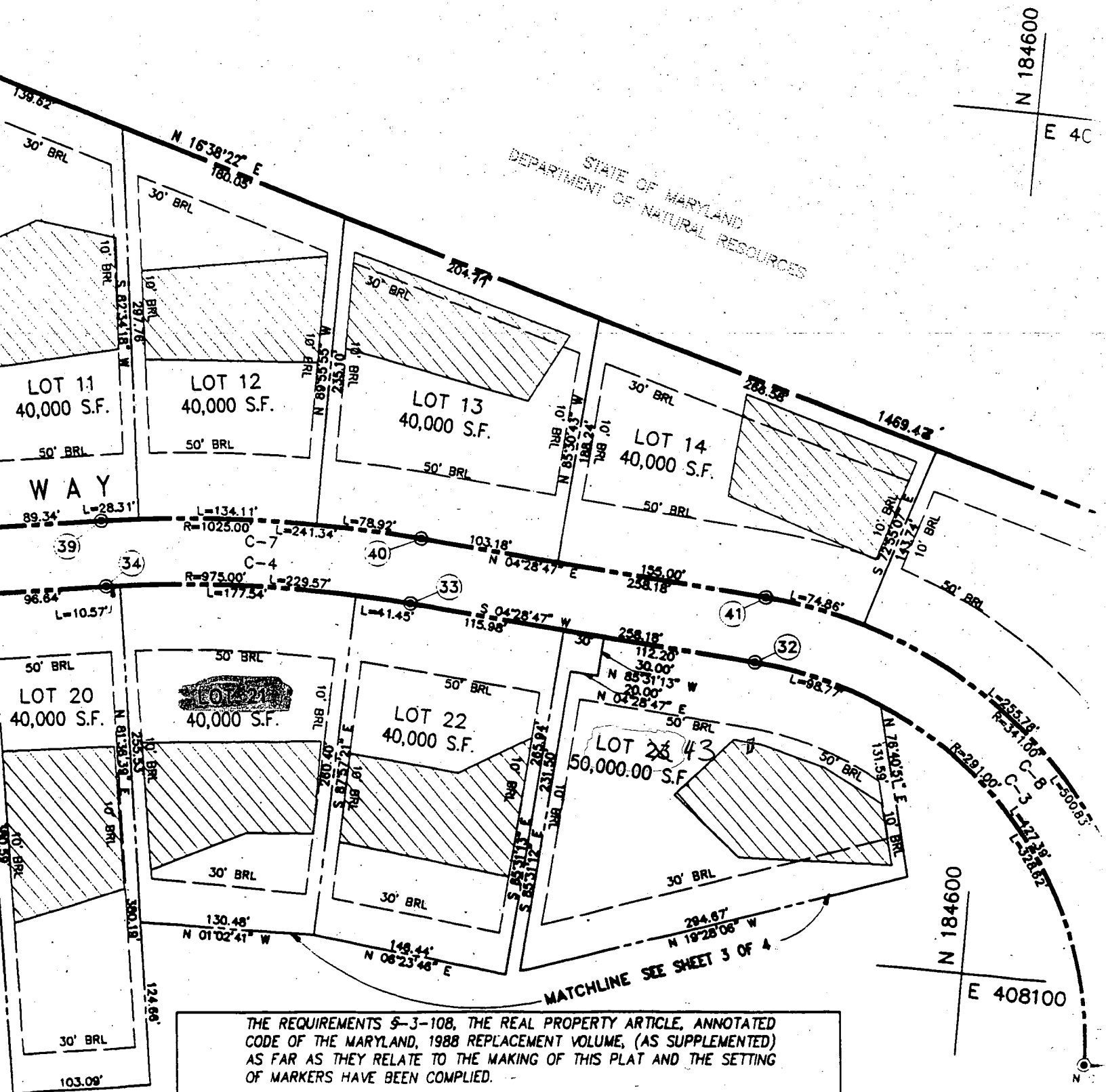
DENOTES 24' PRIVATE USE-IN-COMMON DRIVEWAY EASEMENT



N 60500

EASEMENT(S), UPON COMPLETION OF THE DEVELOPER'S OBLIGATIONS UNDER THE FOREST CONSERVATION INSTALLATION AND MAINTENANCE AGREEMENT EXECUTED BY THE DEVELOPER'S SURETY POSTED WITH SAID AGREEMENT, THE COUNTY SHALL ACCEPT THE EASEMENTS AND RECORD THE DEED(S) OF THE EASEMENT IN THE LAND RECORDS OF HOWARD COUNTY."

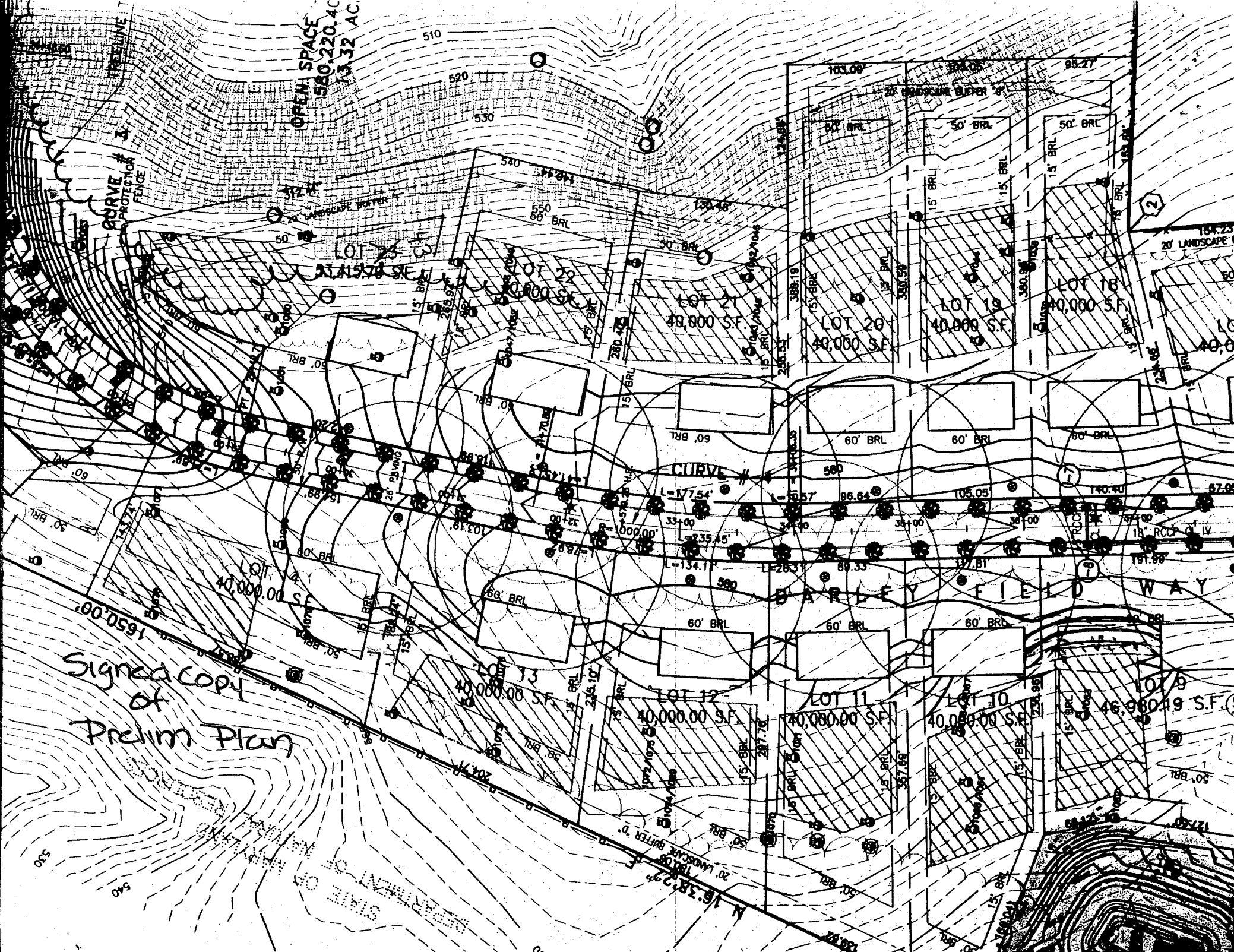
TOTAL AREA OF 100 YR. FLOODPLAIN :
TOTAL AREA OF SUBDIVISION :



THE REQUIREMENTS S-3-108, THE REAL PROPERTY ARTICLE, ANNOTATED CODE OF THE MARYLAND, 1988 REPLACEMENT VOLUME, (AS SUPPLEMENTED) AS FAR AS THEY RELATE TO THE MAKING OF THIS PLAT AND THE SETTING OF MARKERS HAVE BEEN COMPLIED.

SURVEYOR:

OWNERS:



OPEN SPACE
580,220 AC
13.32 AC

CURVE # 3
PROTECTOR FENCE

LOT 15
40,000 SF

LOT 21
40,000 SF

LOT 20
40,000 SF

LOT 19
40,000 SF

LOT 18
40,000 SF

LOT 14
40,000.00 SF

LOT 13
40,000.00 SF

LOT 12
40,000.00 SF

LOT 11
40,000.00 SF

LOT 10
40,000.00 SF

LOT 9
46,980.19 SF

Signed Copy
of
Prelim Plan

STATE OF
DEPARTMENT OF

16.38.24
20' LANDSCAPE BUFFER

50' BRL

Approved Septic System Plan
 Howard County Health Department

total linear feet of trench
 required 240 feet

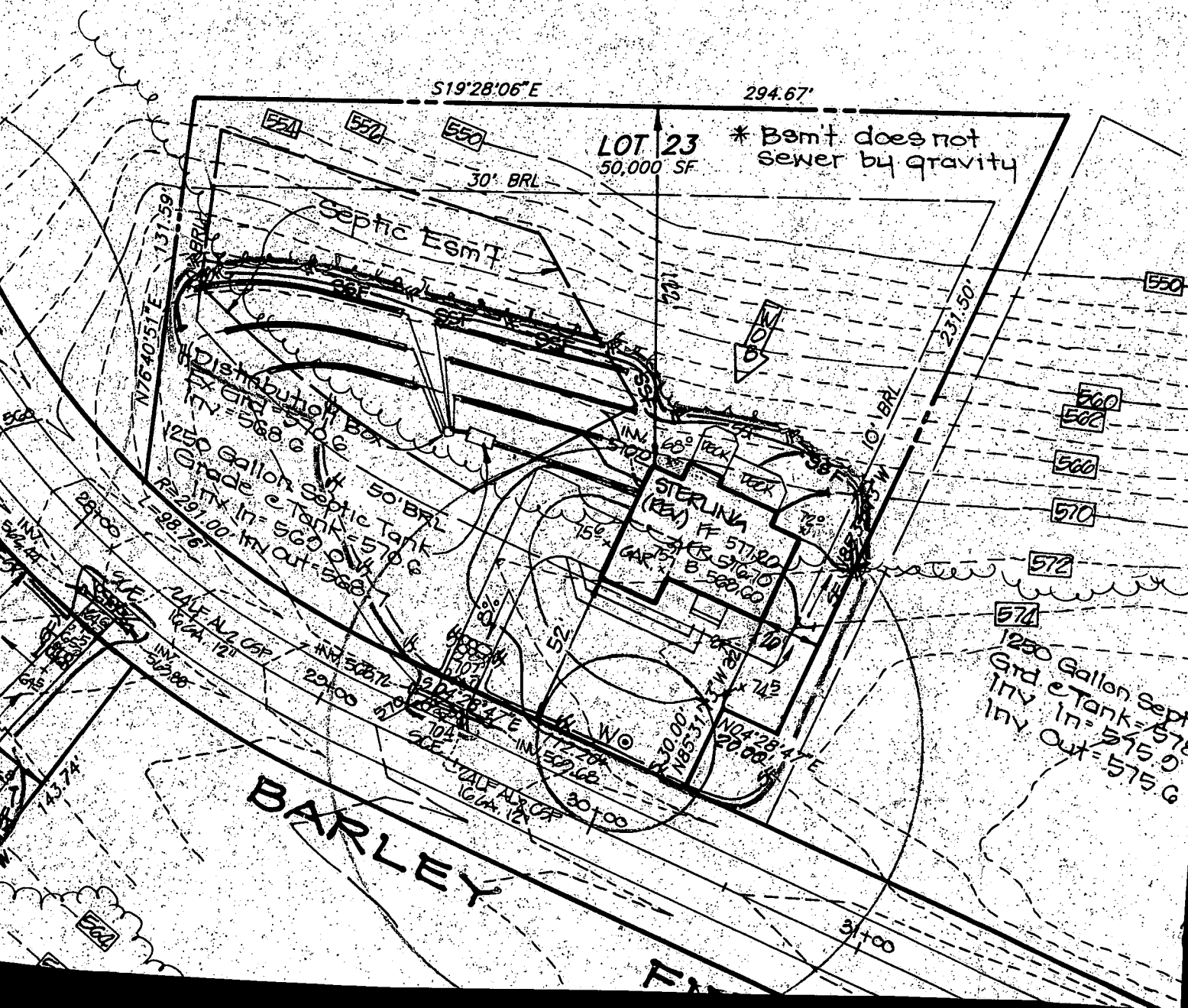
width of trench (es) 3 feet

depth of trench (es) 4 feet

depth of pipe required below
 ground surface 2 feet

Sonia L. Stoll 4/3/98
 Signature Date

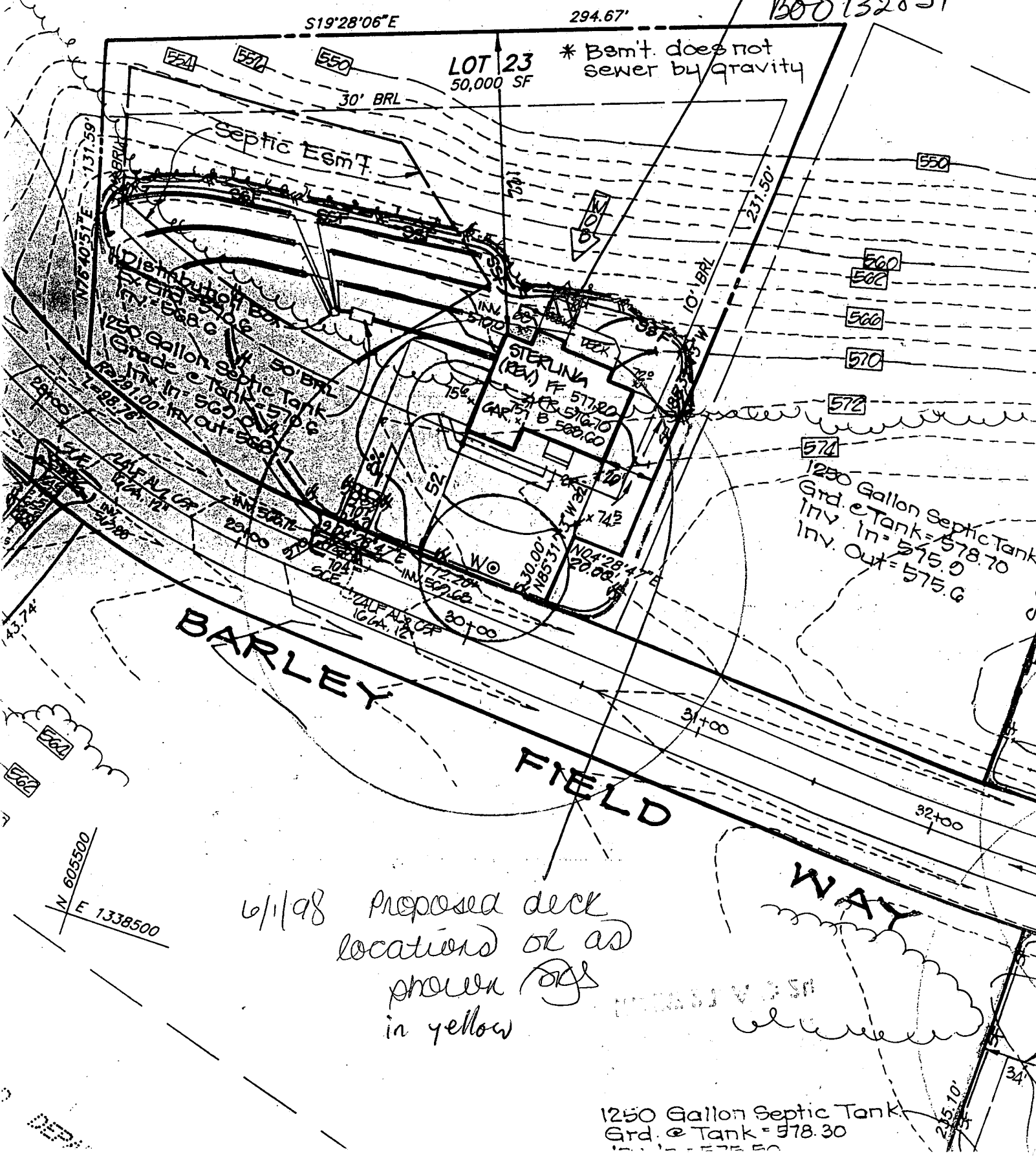
OPEN SPACE LOT 25
 580,220.40 SF
 13.32 AC



* Bsm't does not
 sewer by gravity

OPEN SPACE LOT 25
580,220.40 SF
13.32 AC

OK MD 10/17/01
ADD'L
DECK TO BE
ADDED
B00132851

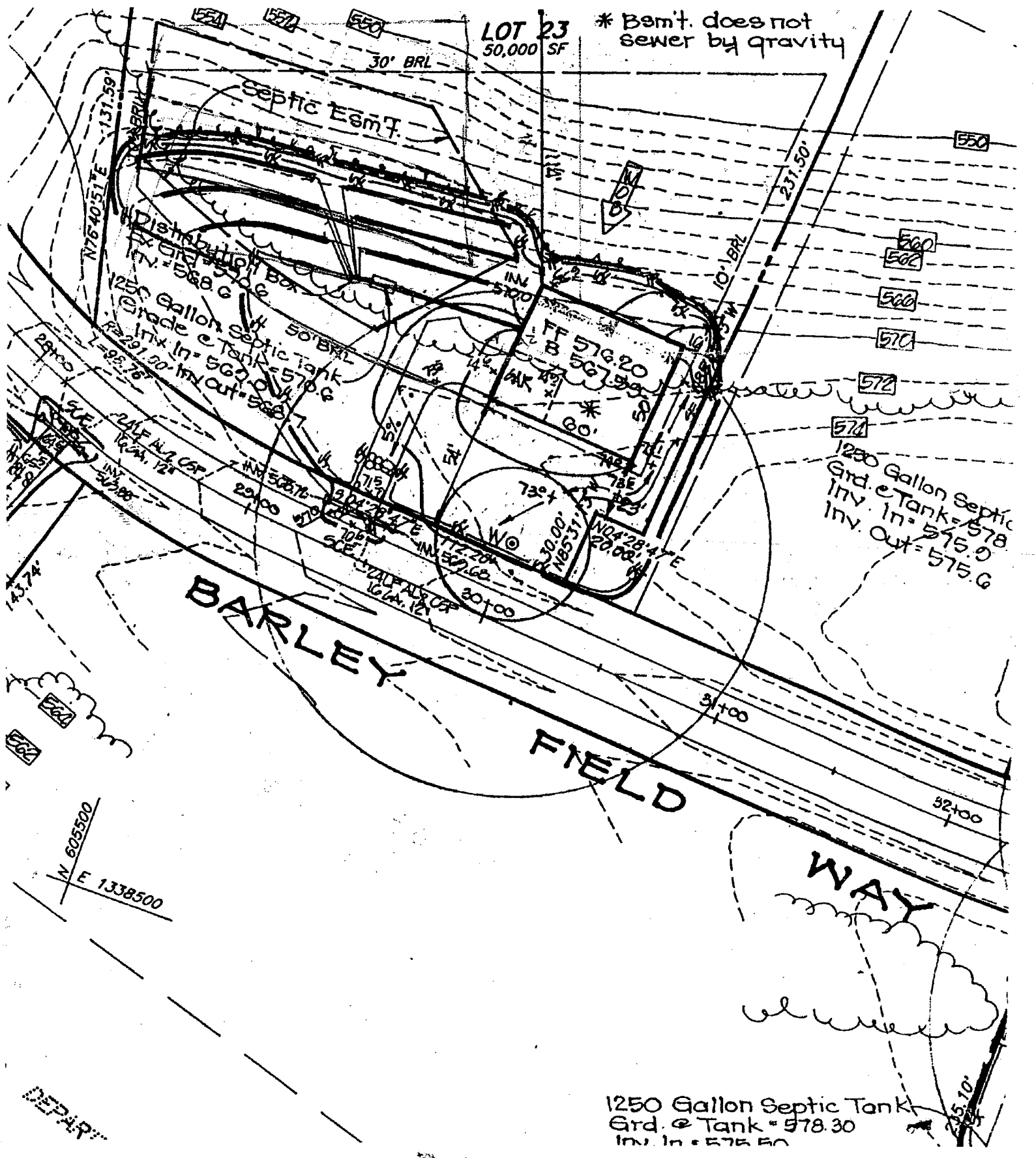


6/1/08 Proposed deck locations or as shown in yellow

1250 Gallon Septic Tank
Grd. e Tank = 578.30
Inv. In = 575.9
Inv. Out = 575.6

LOT 23
50,000 SF

* Bsm't. does not
sewer by gravity



BARLEY
FIELD

WAY

1250 Gallon Septic Tank
Grd. @ Tank = 578.30
Inv. In = 575.50

DEPAR