

LAYOUT 12/18/02-1:30-2 INSP 4 _____
 INSP 2 12/27/02 10 AM INSP 5 _____
 INSP 3 _____ INSP 6 _____

ISSUE DATE: 12/9/2002

APPROVAL DATE: 12/27/02

**PERMIT
INDEXED**

04-365585

P 518019

A 59946-D

**ON-SITE SEWAGE DISPOSAL SYSTEM
 HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH**

Miller Excavating Company, Inc IS PERMITTED TO INSTALL ALTER

ADDRESS: 18115 Sellman Road, Dickerson, MD PHONE NUMBER: 301-349-4400

SUBDIVISION: Westwoods @ Cherry Grove LOT NUMBER: 8

ADDRESS: 16817 Colton Court PROPERTY OWNER: D. R. Horton, Inc.

SEPTIC TANK CAPACITY (GALLONS): 1250 OUTLET BAFFLE FILTER REQUIRED

PUMP CHAMBER CAPACITY (GALLONS): N/A COMPARTMENTED TANK REQUIRED

NUMBER OF BEDROOMS: 4

SQUARE FEET PER BEDROOM: 180

LINEAR FEET OF TRENCH REQUIRED: 240 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box as shown on the approved site plan. Run trenches on contour.
NOTES:	Basement service by gravity is proposed.

PLANS APPROVED: Steven R. Krieg *OK/MR* DATE: 8/06/2002

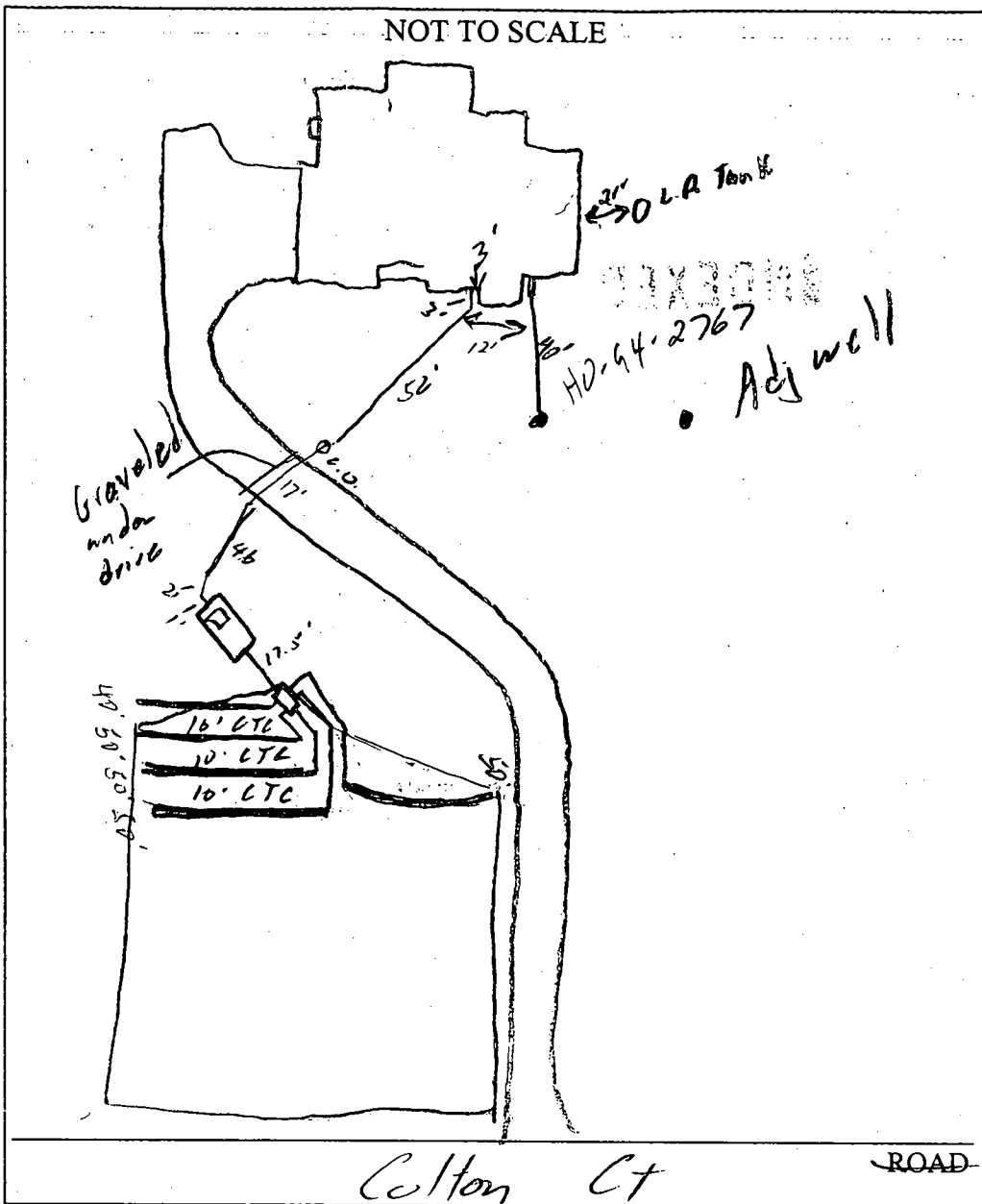
NOTES: PERMIT VOID AFTER 2 YEARS
 CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
 WATERTIGHT SEPTIC TANKS REQUIRED
 ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL UNLESS SPECIFICALLY AUTHORIZED
 MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS UNLESS SPECIFICALLY AUTHORIZED
 CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE REGULATIONS, GUIDELINES AND THE TERMS OF THIS PERMIT

**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS
 RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM
 PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
 BUILDING PERMIT SIGNED 301-313-2640 FOR INSPECTION OF SEPTIC SYSTEM
 AND RETURNED**

12-30-02-600139788-46 Permit - TRK

A59946-D

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	5'
NUMBER OF TRENCHES		5'
TOTAL LENGTH		240'
ABSORPTION AREA		720 sq
DISTRIBUTION BOX LEVEL		✓
DISTRIBUTION BOX BAFFLE		✓
DISTRIBUTION BOX PORT		—

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	✓
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1'
BAFFLES	✓
BAFFLE FILTER	—
MANHOLE LOC	Front
6" PORT LOC	—
WATERTIGHT TEST	—
SEPTIC TANK 2 LEVEL	—
CAPACITY	— GAL
SEAM LOC	—
TANK LID DEPTH	—
BAFFLES	—
BAFFLE FILTER	—
MANHOLE LOC	—
6" PORT LOC	—
WATERTIGHT TEST	—

PRE-CONSTRUCTION 12/18/02 Lot stake, measure 100' well radius, contour appears accurate. 10' C.T.C. layout per B.P. (60)

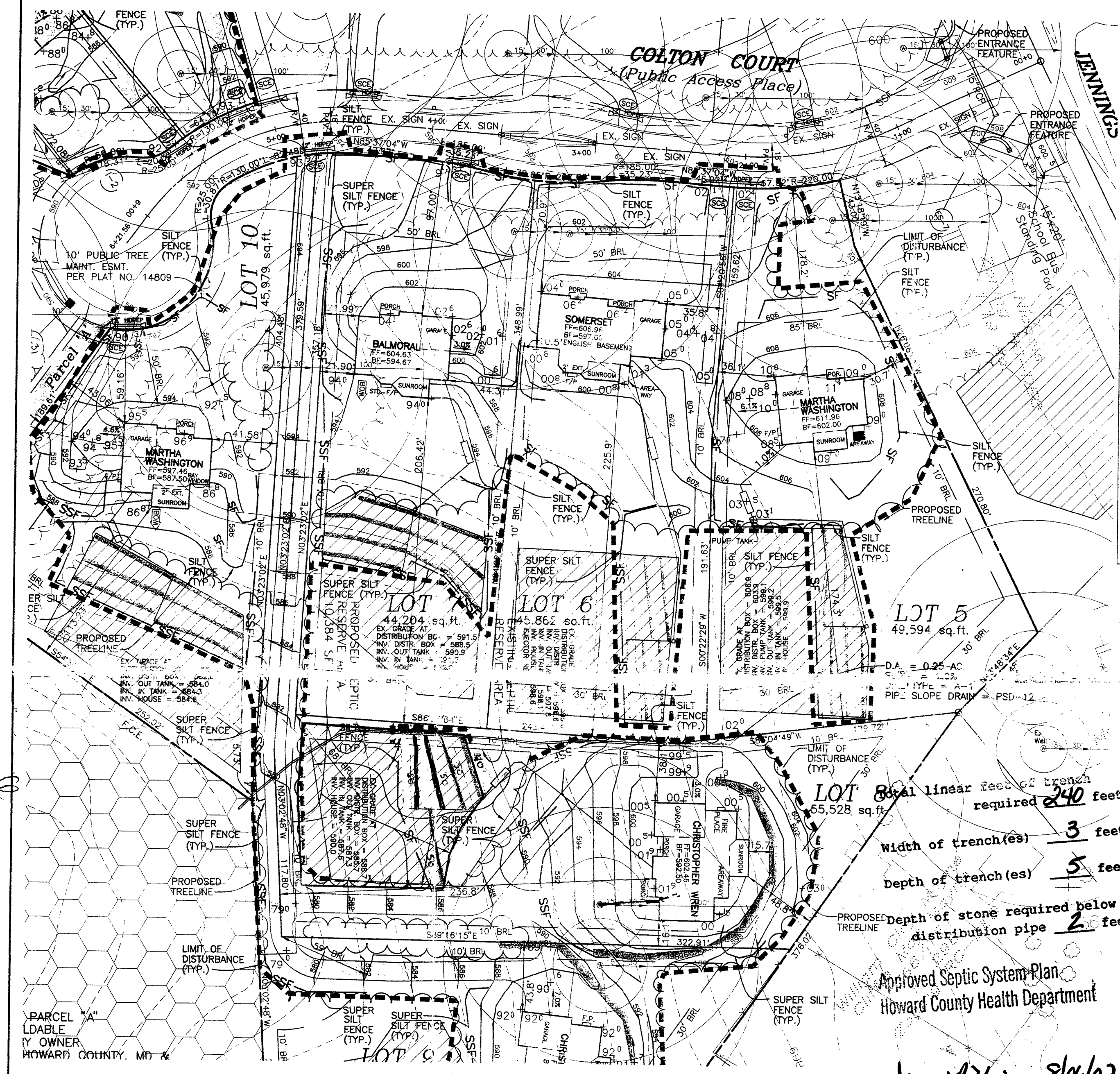
INSTALLATION 12/27/02 OK to cover all work

FINAL INSPECTOR [Signature]

DATE OF APPROVAL 12/27/02

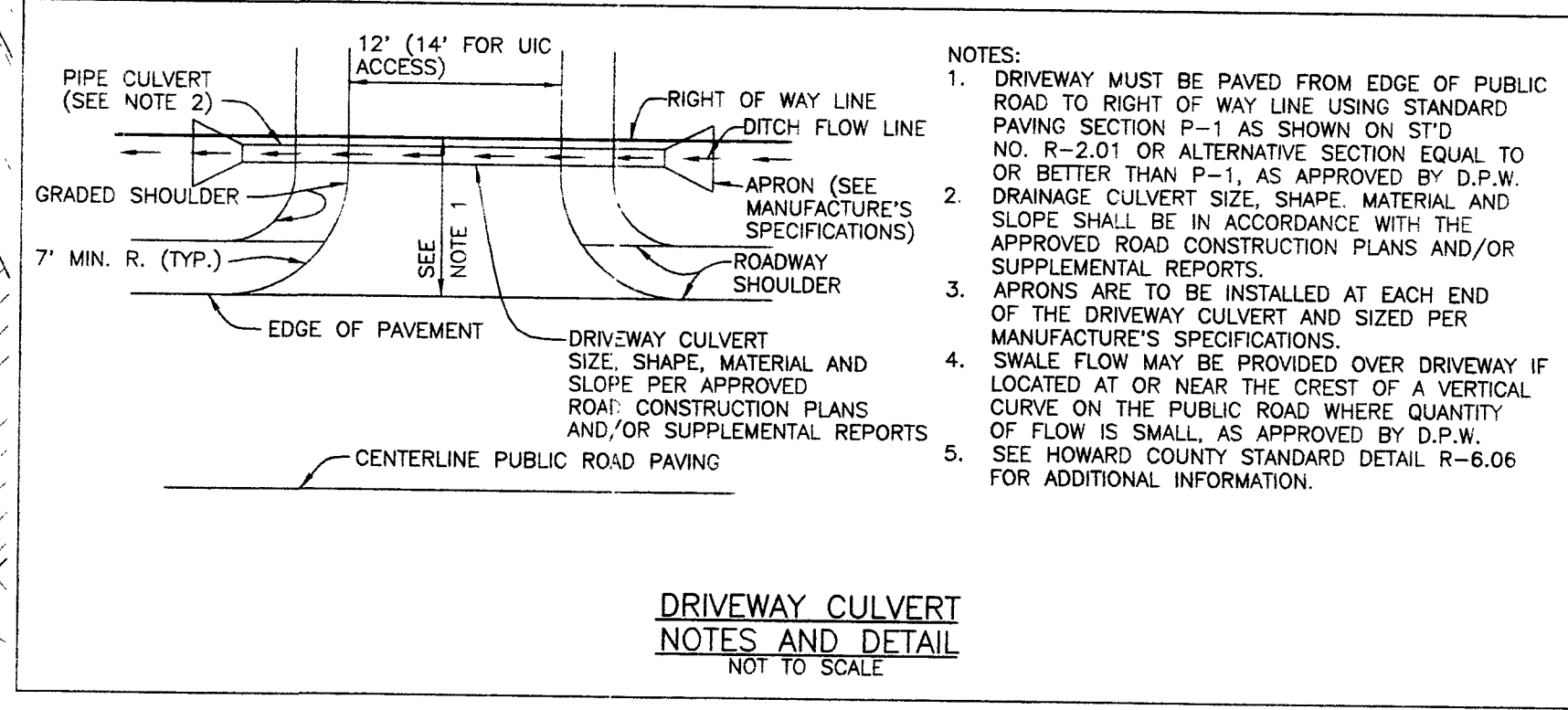
RECEIVED AND RETURNED

10



NOTES:

1. THE LOT SHOWN HEREON WAS RECORDED ON PLAT NUMBER 14809, REFER TO THE PLAT FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND BUILDING RESTRICTIONS.
2. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF 10,000 SQUARE FEET AS REQUIRED BY THE STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA IS RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT VARIANCES FOR ENCROACHMENT INTO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT PLAT SHALL NOT BE NECESSARY.
3. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION DISTRICT UNDER GP-01-192 AND MODIFIED FOR THIS SPECIFIC HOUSE.
4. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS.
5. EXACT LENGTH OF SEPTIC TRENCHES ARE TO BE DETERMINED BY THE HEALTH DEPARTMENT AT THE TIME OF TRENCH LAYOUT AND INSPECTION.
6. SPOIL FROM THE TRENCHING OF THE SEPTIC AREA IS TO BE PLACED ON THE UPHILL SIDE OF THE EXCAVATION FOR EACH INDIVIDUAL LOT.
7. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
8. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS (F-00-105).



- NOTES:**
1. DRIVEWAY MUST BE PAVED FROM EDGE OF PUBLIC ROAD TO RIGHT OF WAY LINE USING STANDARD PAVING SECTION P-1 AS SHOWN ON STD NO. R-2.01 OR ALTERNATIVE SECTION EQUAL TO OR BETTER THAN P-1, AS APPROVED BY D.P.W.
 2. DRAINAGE CULVERT SIZE, SHAPE, MATERIAL AND SLOPE SHALL BE IN ACCORDANCE WITH THE APPROVED ROAD CONSTRUCTION PLANS AND/OR SUPPLEMENTAL REPORTS.
 3. APRONS ARE TO BE INSTALLED AT EACH END OF THE DRIVEWAY CULVERT AND SIZED PER MANUFACTURE'S SPECIFICATIONS.
 4. SWALE FLOW MAY BE PROVIDED OVER DRIVEWAY IF LOCATED AT OR NEAR THE CREST OF A VERTICAL CURVE ON THE PUBLIC ROAD WHERE QUANTITY OF FLOW IS SMALL, AS APPROVED BY D.P.W.
 5. SEE HOWARD COUNTY STANDARD DETAIL R-6.06 FOR ADDITIONAL INFORMATION.

DRIVEWAY CULVERT NOTES AND DETAIL
NOT TO SCALE

LEGEND

- LIMIT OF DISTURBANCE
 - EX. SILT FENCE
 - PROP. SILT FENCE
 - EX. SUPER SILT FENCE
 - PROP. SUPER SILT FENCE
 - EX. EARTH DIKE
 - PROP. EARTH DIKE
 - STABILIZED CONSTRUCTION ENTRANCE
 - EXISTING CONTOUR
 - PROPOSED CONTOUR
 - EROSION CONTROL MATTING
- SF
 SF
 SSF
 SSF
- SCE
 SCE
- 1" BITUMINOUS CONCRETE SURFACE
 3" BITUMINOUS CONCRETE BASE
 598
 612
 FULL DEPTH BITUMINOUS CONCRETE

Total linear feet of trench required **240** feet
 Width of trench(es) **3** feet
 Depth of trench(es) **5** feet
 Depth of stone required below distribution pipe **2** feet

Approved Septic System Plan
Howard County Health Department

Steve R. Krug **8/26/02**
 Signature Date

[] = The HD accepts this proposed modification to the recorded SDA.
 8/7/02 - SRK

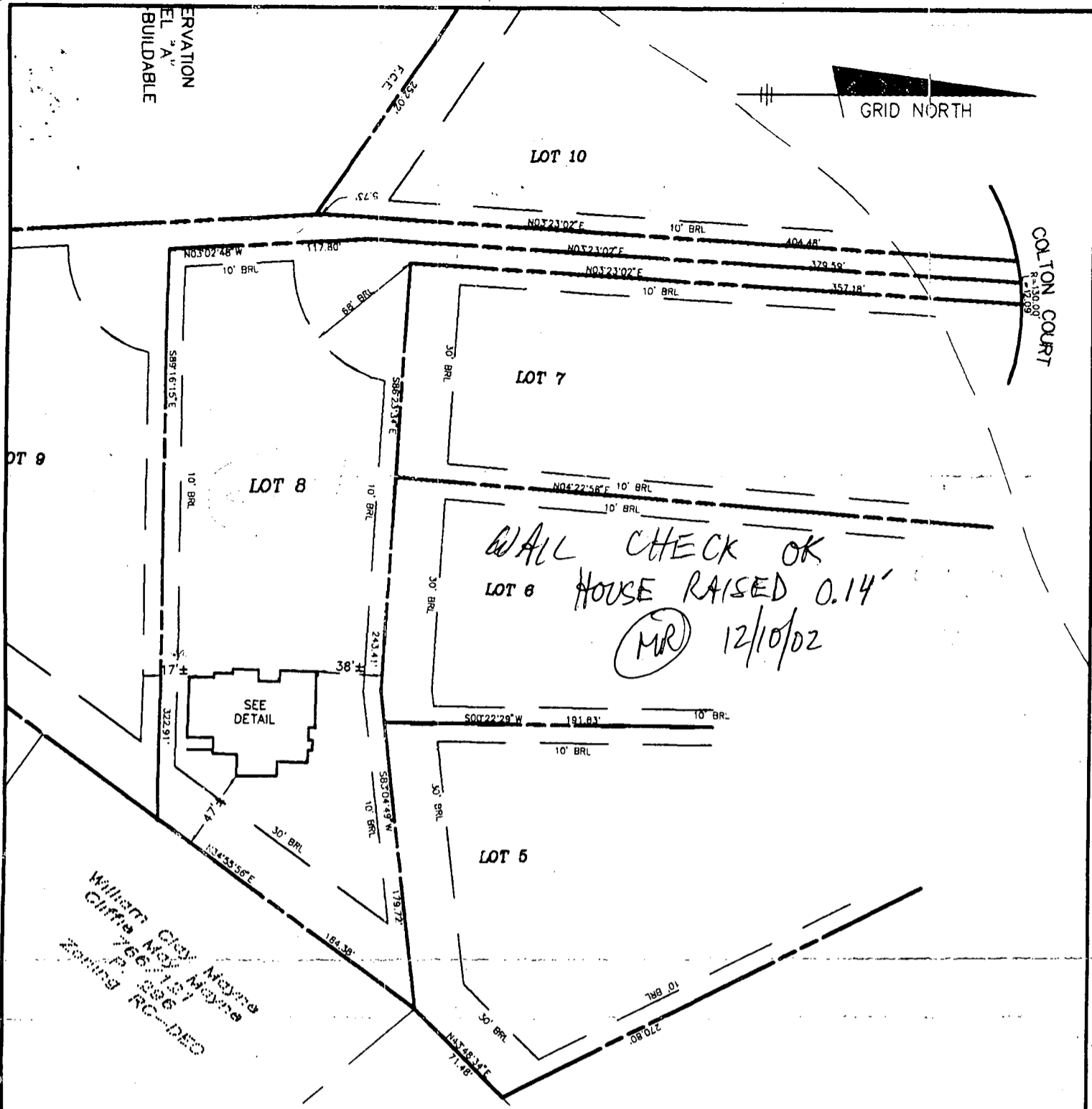
NO.	DATE	REVISION

BENCHMARK
 ENGINEERS ▲ LAND SURVEYORS ▲ PLANNERS
ENGINEERING, INC.
 6480 BALTIMORE NATIONAL PIKE ▲ SUITE 418
 ELLICOTT CITY, MARYLAND 21043
 PHONE: 410-465-6105 ▲ FAX: 410-465-6644
 EMAIL: berchmrk@cais.com

OWNER/BUILDER:	D.R. HORTON, INC. SUITE 230 1370 PICCARD DRIVE ROCKVILLE, MARYLAND 20850 1-301-670-6144	PROJECT:	THE WESTWOODS OF CHERRY GROVE LOT 8
LOCATION:	16817 COLTON COURT WOODBINE, MD 21797 TAX MAP 13 - BLOCK 15 - PARCELS 140, 141, 142 AND P/O PARCEL 46 4th ELECTION DISTRICT, HOWARD COUNTY, MARYLAND	TITLE:	PERMIT PLAN
HOUSE TYPE:	CHRISTOPHER WREN	DATE:	JULY, 2002
DESIGN:	JMC	DRAFT:	JMC
SCALE:	1" = 50'	PROJECT NO.	1431
		DRAWING	<u>1</u> OF <u>1</u>

ERVATION
EL. A
BUILDABLE

GRID NORTH



FIRST FLOOR ELEV. = 602.6'
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 1'

SURVEYOR'S CERTIFICATE

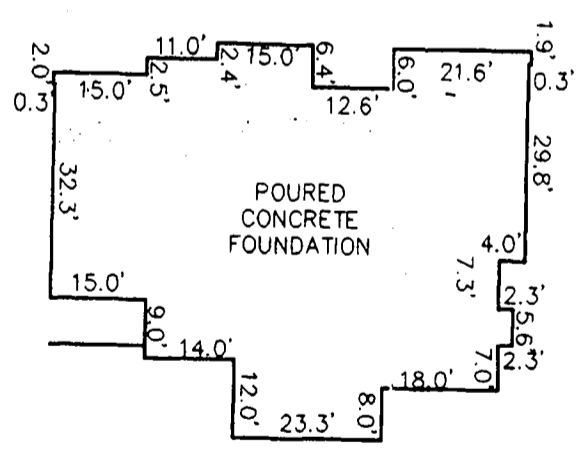
I HEREBY CERTIFY TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON NOVEMBER 26, 2002; AND THAT THE PROPERTY OUTLINE SHOWN HEREON IS BASED ON THE PLAT PREPARED BY R.M. MOCHI GROUP P.C. ENTITLED "THE WEST WOODS OF CHERRY GROVE", AND RECORDED AMONG THE LAND RECORDS OF HOWARD COUNTY AS PLAT No. 14809

David M. Harris
DAVID M. HARRIS
REGISTERED PROFESSIONAL LAND SURVEYOR
MD REG. No. 10978
FOR BENCHMARK ENGINEERING, INC.
MD REG. No. 351

RECORD PLAT No. 14809
FEMA FIRM No. 240044 0013-B
ZONE: C
DATED: 12/04/86

BENCHMARK
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PKWY & SUITE 618
ELLCOTT CITY, MARYLAND 21043
phone: 410-483-9103 A fax: 410-463-6644
email: B.mohr@bmarks.com



FOUNDATION DETAIL

SCALE: 1" = 30'

WALL CHECK
THE WEST WOODS
OF CHERRY GROVE
LOT No. 8

16817 COLTON COURT
4TH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 80' DATE: 11-26-02

9/26/02

10-12 AM

HOWARD COUNTY HEALTH DEPARTMENT
 BUREAU OF ENVIRONMENTAL HEALTH
 WATER AND SEWERAGE PROGRAM
 TEL: (410)313-2640 FAX: (410)313-2648

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Bowlebens Inc Telephone #: 301 428 3900
 Address: 23407 Frederick Rd
Washington Md 20871

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
 License # and name of individual responsible for the field installation:
 Name (Print): FRANK HINKLE License# 17867

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: D.R. Houston Inc Telephone #: 670 6144
 Subdivision: Cherry Wood Lot #: 8 Well Tag #: HO-74-2767
 Site Address: 16817 Colton Cr

Submersible Pump Data

Make: Sonda
 Model #: _____
 Pump Capacity 1/3 GPM
 Well Yield: 15 GPM

Pitless Adapter

Make: Compbell
 Model#: _____
 Depth: 42 (36" min)
 NSF approved: _____

Well Cap and Electric Conduit

Two piece watertight cap: ✓
 Screened, vented well cap: ✓
 Cap secured to casing: ✓
 Conduit min 18" B.G.: ✓
 Conduit secured to well cap: ✓

Depth of well encountered at time of pump installation: 2.90(feet)
 If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors or Cable guards are required - Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt ✓

Piping to house

Type: Belk 1"
 PSI: 200 (160 psi min)
 Depth of supply line: 36 (36" min)

House Connection

PVC sleeved to undisturbed soil at wall penetration: _____
 Approximate length of sleeve: _____
 Sleeve caulked and sealed properly: ✓

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

[Signature] 9/25/02
 Signature of company representative responsible for installation date

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested: 9/26/02 10-12pm Date Insp. Approved: 9/26/02 (SD)

- Inspection Data:
- Pitless adapter and water supply line at least 36" below grade ✓
 - Two piece cap installed and attached to casing securely ✓
 - Elec. conduit extends at least 18" below grade/attached to cap properly ✓
 - Safety rope installed inside of well casing ✓
 - Correct well tag attached properly and casing 8" above finished grade ✓
 - Water supply line sleeved adequately at house connection ✓
 - Adequate grout observed below pitless adapter ✓

C1 07856

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED AFTER WELL IS COMPLETED.

COUNTY NUMBER OK 12/6/00 BB

ST/CO USE ONLY DATE RECEIVED 11/22/00

DATE WELL COMPLETED 11/20/2000

DEPTH OF WELL 225 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-2767

OWNER GROVEMONT DEVELOPMENT LLC STREET OR RFD COLTON CT TOWN LISBON SUBDIVISION WESTWOODS AT CHERRY GROVE SECTION LOT X8

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, TO), check if water bearing. Includes entries for Brown Shale, Blue Rock, and Backfilled Dry well.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (CM, BC) NO. OF BAGS 18 NO. OF POUNDS 1892 GALLONS OF WATER 108 DEPTH OF GROUT SEAL 0 to 68

CASING RECORD

MAIN CASING TYPE ST Nominal diameter 6 Total depth 75

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

SCREEN RECORD

screen type or open hole (ST, BR, HO) insert appropriate code below

C2 DEPTH (nearest ft.)

Table with columns: E, A, C, H, S, R, E, N and depth intervals. Includes slot size and diameter of screen.

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

70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C3 PUMPING TEST

HOURS PUMPED (nearest hour) 3/8 PUMPING RATE (gal. per min.) 15 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 30 WHEN PUMPING 47 TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (YES/NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 PUMP HORSE POWER 37 PUMP COLUMN LENGTH (nearest ft.) 41 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 2 (nearest foot)

LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

See Attached Well locations. (Includes a north arrow pointing up)

NUMBER OF UNSUCCESSFUL WELLS: 1

WELL HYDROFRACTURED (yes/no) 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, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 MSD024 DRILLERS SIGNATURE Joseph P. Mayne LIC. NO. 1 D

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

B 1	5958	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND PERMIT TO DRILL WELL <i>W 514154</i> please print or type	STATE PERMIT NUMBER HO - 94 - 2767 fill in this form completely
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OWNER INFORMATION

Date Received (APA) _____

8 MM DD YY 13

15 Gardemont Development LLC Last Name Owner First Name 34

36 Box 417 Street or RFD 55

57 Ellicott City Md 21041 Town 70 State 72 Zip 76

LOCATION OF WELL

B 3

8 Howard COUNTY 21

23 The Westwoods of Cherry Grove SUBDIVISION 42

SECTION 44 46 LOT 4 50

52 Lisbon NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 5 M I 73 76 77 78

DRILLER INFORMATION

Driller's Name Joseph L. Mayne M S D O 74 License No. 81

76

Company Name Joseph R. Mayne Well Drilling

Address 5512 Ridge Rd. Mt. Airy Md 21771

Signature Joseph L. Mayne Date 7/26/2000

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

11 Colton Ct. NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 280 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39

TAX MAP: _____ BLK: _____ PARCEL _____

WELL INFORMATION

B 2

1 2 APPROX. PUMPING RATE 5 (GAL. PER MIN.) 8 12

AVERAGE DAILY QUANTITY NEEDED 500 (GAL. PER DAY) 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S →

DATE ISSUED 08 08 00 C. W. [Signature] 8/9/01 EXP. DATE 41

43 MM DD YY 48 CO SIGNATURE

NORTH GRID 529 000 EAST GRID 0772 000

50 55 57 63

USE FOR WATER (CIRCLE APPROPRIATE BOX)

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22 INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

GEO-THERMAL

APPROXIMATE DEPTH OF WELL 300 FEET 24 28

APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X (X)

SOURCES OF DRILLING WATER

1. Well

2.

3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 772

N. 29

000 000

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

30 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

37 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

39 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) 41 _____ 52

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

Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER _____

PERMIT No. HO - 94 - 2767

70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITY'S SHOULD USE SEPARATE SHEET IF NEEDED.

APPLICATION

PERCOLATION TESTING

A _____

P _____

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

DISTRICT _____

DATE _____

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 MARSHALL W. NICHOLS

ADDRESS 2937 JENNINGS CHAPEL ROAD
WOODRINE, MD 21797 PHONE _____

AGENT OR PROSPECTIVE BUYER DAVID E. WILKINSON @ MACRO LTD. REAL ESTATE SERVICES

ADDRESS 5301 BUCKEYSTOWN PIKE, SUITE 300
FREDERICK, MD 21704 PHONE (301) 698-9696

PROPERTY LOCATION:

DIVISION NICHOLS' PROPERTY LOT NO. _____

ROAD AND DESCRIPTION JENNINGS CHAPEL ROAD, HOWARD COUNTY

TAX MAP 13 PARCEL # P/0 46

SIZE OF LOT 40,000 - 60,000 sq. ft. TYPE BLDG. SINGLE FAMILY DWELLING
(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. X
[Signature]
(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

A59946

COUNTY #

SOIL PROFILE

4C/6D

YELLOW/BROWN CLAY

RED BROWN CLAY LOAM

DRY

4B/6A

YELLOW BROWN CLAY

YELLOW BROWN MICA SILT LOAM

MOTTLED

SEEPAGE

SD

TOP SOIL, STRUCTURED CLAY LOAM

MICA LOAM

60% SAND

SAPPROLITE

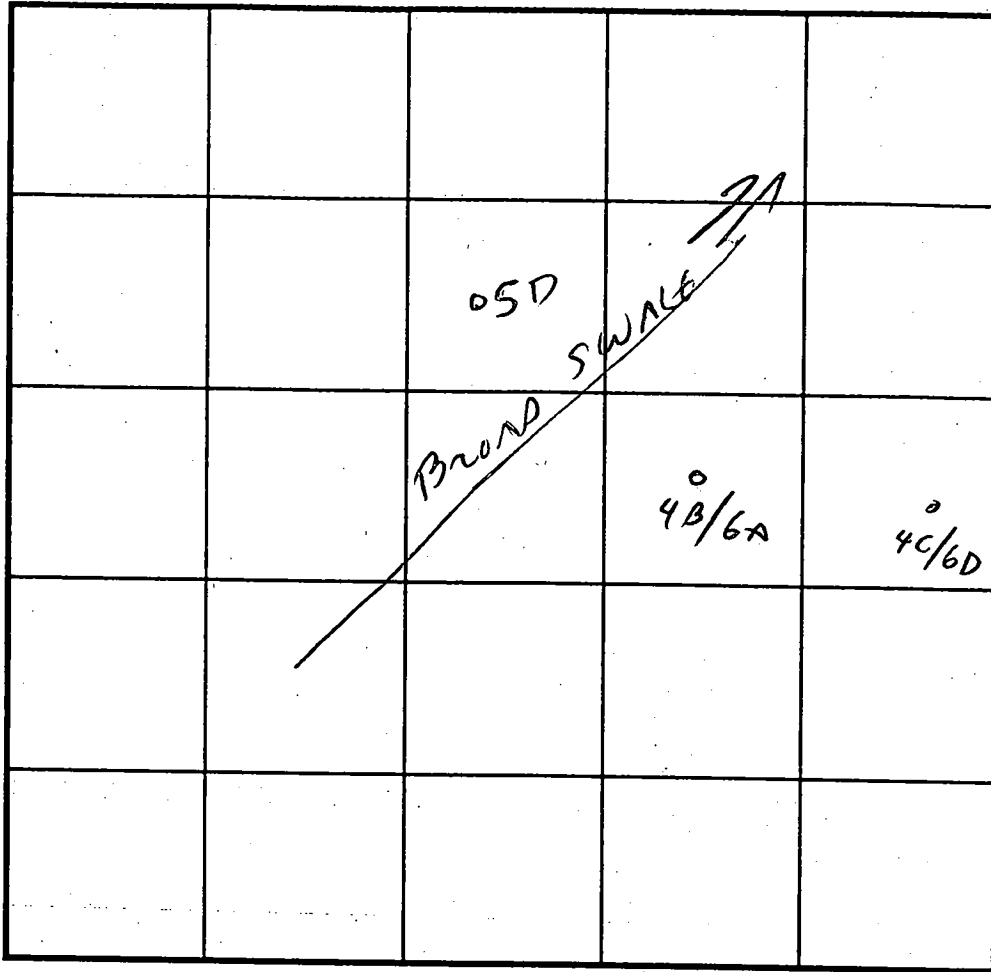
SOIL PROFILE

SE (ON SC)

CLAY

PATCHY YELLOW BROWN & ORANGE BROWN MICA LOAM

28% SAPPROLITE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
4/14/98	4C/6D	4'	12:54	1:00	1:00	1:07	7 MIN
	4B/6A	4'	1:11	TEST BORE COLLAPSED			OK
			OK 4'	ESTIMATE 25 MIN PERC			
	SD	4'	1:14	1:17	1:17	1:20	3 MIN
		FAILED @ 6'	ROCK				X
		BUT GOOD SOIL STRUCTURE - POSSIBLE FOR ELEVATED TRENCHES					
		OR SAND MOUND EVALUATION IF NEEDED					
	(ON SC) SE	3'	1:23	1:25	1:25	1:28	3 MIN

REMARKS LOT 5 - STRUCTURE CLAY - HAS SAND MOUND POSSIBILITIES

TYPE OF SOIL _____

TESTED BY Cwill ALSO PRESENT SHARP

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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



APPLICATION

PERCOLATION TESTING

A _____

P _____

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

DISTRICT _____

DATE _____

TO: THE COUNTY HEALTH OFFICER
ELLICOTT CITY, MARYLAND

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ADDRESS 5301 BUCKEYSTOWN PIKE, SUITE 300
FREDERICK, MD 21704 PHONE (301) 698-2626

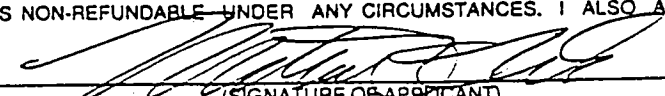
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SIZE OF LOT 40,000 - 60,000 sq. ft. TYPE BLDG. SINGLE FAMILY DWELLING
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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

COUNTY #

SOIL PROFILE

2B/3A

orange/red
clay
loam

orange
tan
Siclin
20%
Shale
frags

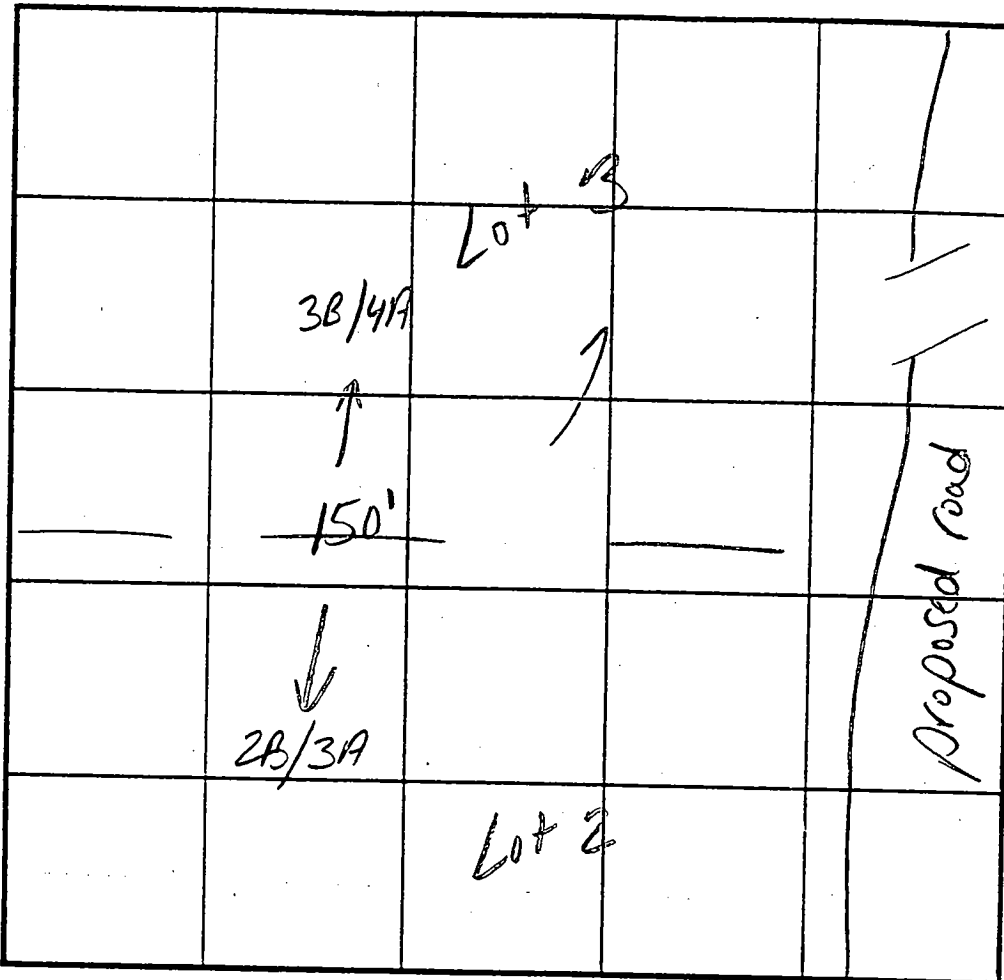
3B/4A

orange
clay
loam

orange
pink tan
Siclin
mica
flocs

15%
Shale

SOIL PROFILE



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

Jennings Chapel

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5.21.98	2B/3A	11.0'D	visual	only	-ok	see profile	
	3B/4A	10.0'D	visual	only	-ok	see profile	

REMARKS test holes staked

TYPE OF SOIL

TESTED BY Kim Maistek

ALSO PRESENT Nick Sharp

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SEPTIC SPECIFICATIONS WORKSHEET

SUBDIVISION: WESTWOODS AT CHERRY GROVE

A 59946D

STREET NAME: COLTON COURT

LOT NUMBER: AS

AVERAGE PERCOLATION RATE: 8min

SQUARE FEET PER BEDROOM: 210 180^{ok}

NUMBER OF BEDROOMS: 4

LINEAR FEET OF TRENCH PER BEDROOM: 70

TOTAL LINEAR FEET OF TRENCH: 240

SEPTIC TANK CAPACITY: 1250

~~TOP SEAMED TANK REQUIRED?~~ YES OR NO
Top seam tank required (Yes)

COMPARTMENTED TANK REQUIRED? YES OR NO
(No)

TRENCH DIMENSIONS: Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade.
Bottom maximum depth 5.0 feet below original grade. Effective area begins at 3.0 feet below original grade. 2.0 feet of stone below distribution pipe.

PUMPED SYSTEM PROPOSED: YES OR (NO)

Pumped Septic System Detail: NA gallon(s) pump chamber.

Top Seamed Pump Chamber Required? YES OR NO

Note 1: Septic pump detail to be provided by installer prior to issuance of septic permit.

Note 2: Pump performance test is necessary prior to Health Department approval of pump septic system.

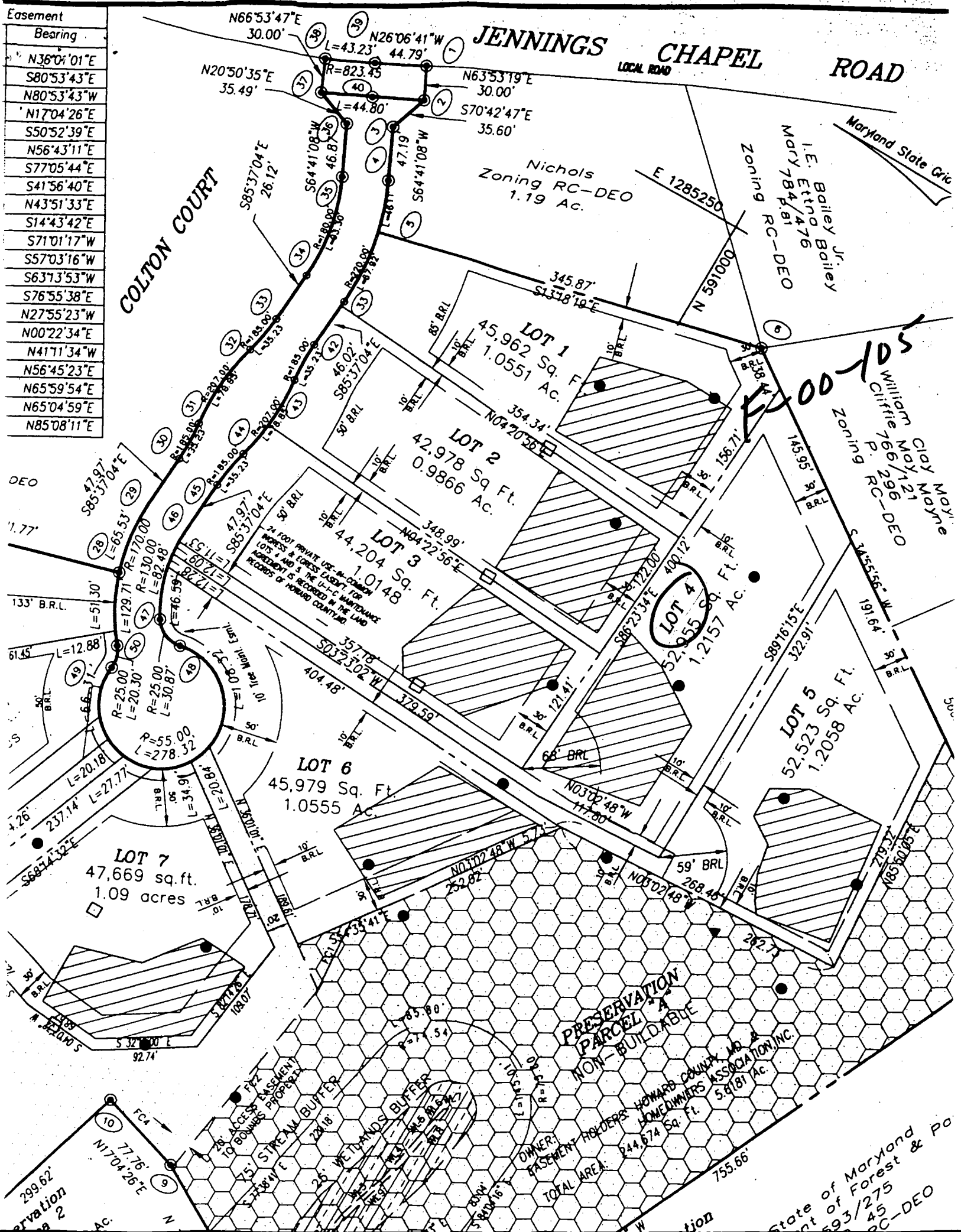
LOCATION: Place the distribution box as shown on the approved site plan. Run trenches on contour.

ADDITIONAL NOTES: Basement service by gravity is proposed.

Reviewer: Chris Willia

Date: 8/2/00

Easement	Bearing
	N36°04'01"E
	S80°53'43"E
	N80°53'43"W
	N17°04'26"E
	S50°52'39"E
	N56°43'11"E
	S77°05'44"E
	S41°56'40"E
	N43°51'33"E
	S14°43'42"E
	S71°01'17"W
	S57°03'16"W
	S63°13'53"W
	S76°55'38"E
	N27°55'23"W
	N00°22'34"E
	N41°11'34"W
	N56°45'23"E
	N65°59'54"E
	N65°04'59"E
	N85°08'11"E

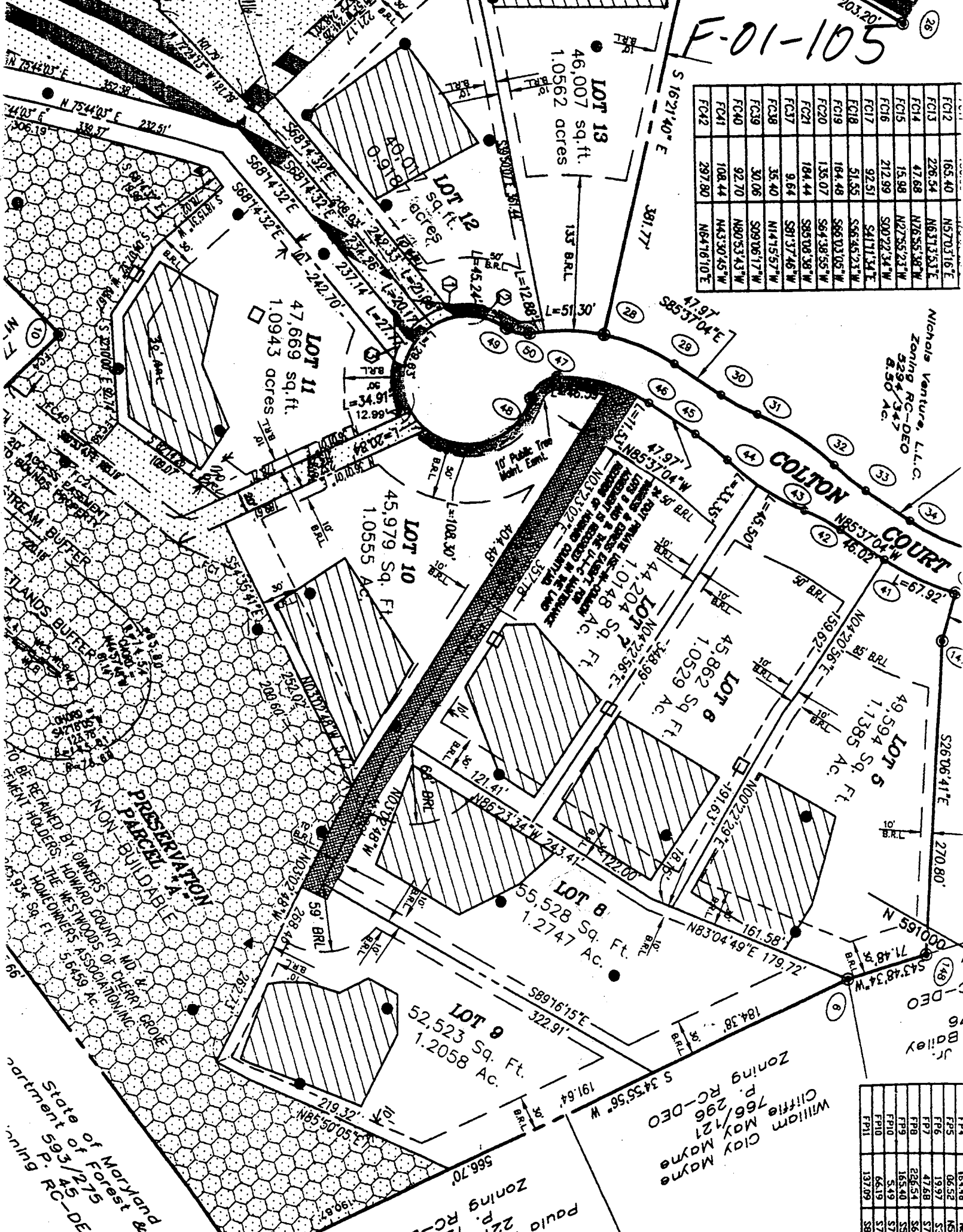


State of Maryland
 Department of Forest & Po
 593/275
 45
 RC-DEO

F-01-105

FC12	165.40	N5703'16"E
FC13	226.54	N6313'51"E
FC14	47.68	N2655'38"W
FC15	15.98	N2755'23"W
FC16	212.99	S00722'34"W
FC17	92.51	S4111'34"E
FC18	51.55	S6654'23"W
FC19	184.48	S6603'05"W
FC20	135.07	S6438'55"W
FC21	184.44	S8508'39"W
FC27	9.64	S8137'46"W
FC28	35.40	N1415'57"W
FC39	30.06	S0906'17"W
FC40	92.70	N8053'43"W
FC41	108.44	N4330'45"W
FC42	297.80	N6416'10"E

Nichols Venture, L.L.C.
Zoning RC-DEO
3294/347
8.50 Ac.



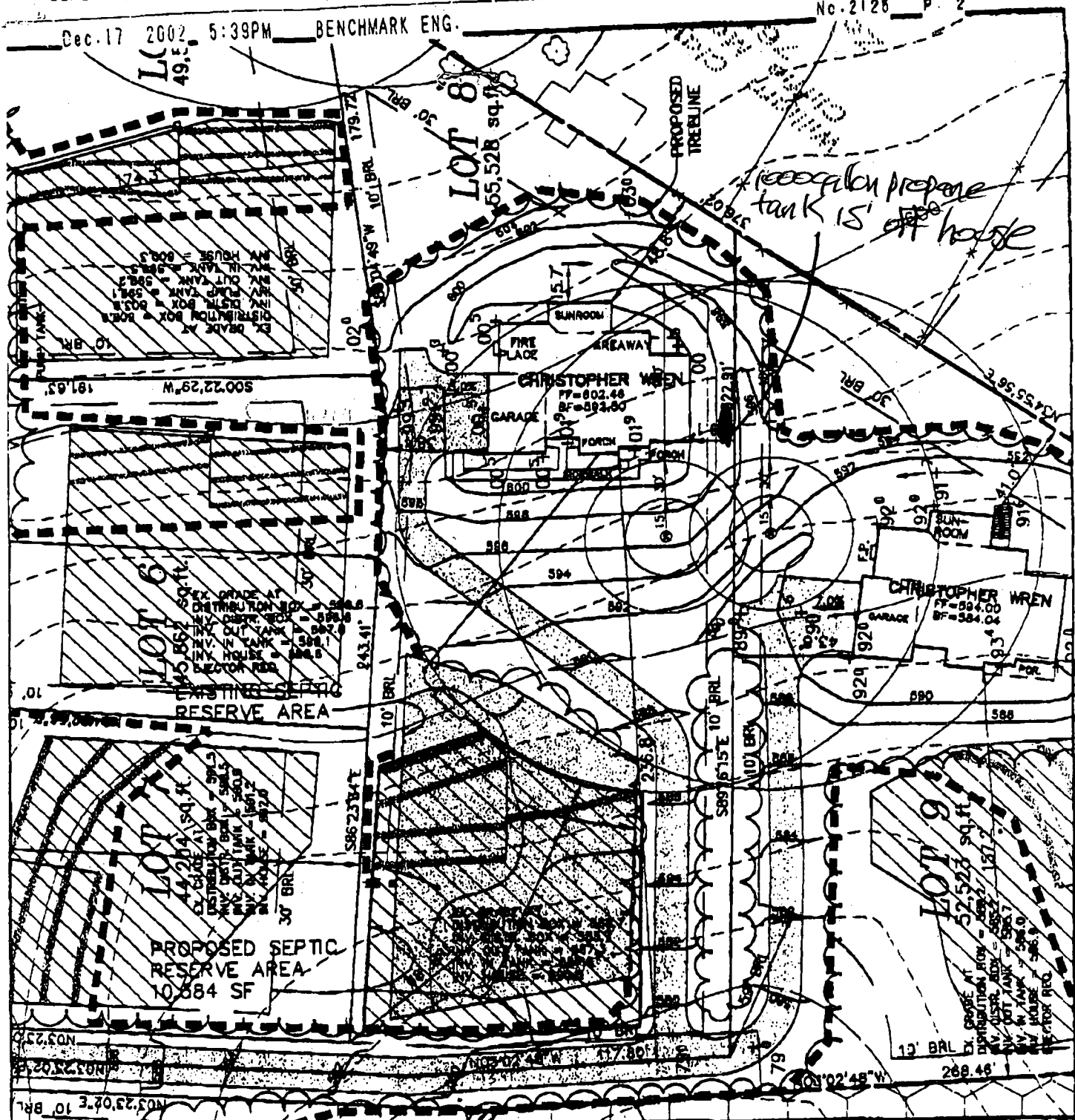
FP4	154.48	N85°4'
FP5	06.52	S35°4'
FP6	19.97	S35°4'
FP7	47.68	S76°5'
FP8	226.54	S63°1'
FP9	165.40	S57°0'
FP10	54.9	S73°0'
FP11	64.19	S73°0'
FP12	137.09	S87°4'

William Cliffe
Clay Mayme
766/121
Zoning RC-DEO

Paula MCD
2216/123
Zoning RC-DEO

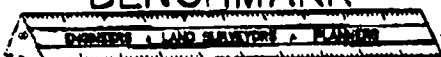
State of Maryland & Department of Forest & Plantation Resources
Parcel 593/275
Zoning RC-DEO

Dec. 17 2002 5:39PM BENCHMARK ENG.



SLOPE OF DRIVEWAY = 3% @ GAR.
 NUMBER OF RISERS IN GAR. = 3
 NUMBER OF RISERS ON LEAD WALK = 3 OR 4

BENCHMARK



ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 418 • ELLICOTT CITY, MD 21043
 PHONE: 410-465-8105 FAX: 410-465-8844

THE WESTWOODS AT CHERRY GROVE LOT 8

FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: 6/24/02
 REVISED: 7/09/02 (SEPTIC)

12-30-02
 OK (KN)
 Prop tank
 B00139788