

2/10/99
met installer
10am

2/16/99
12pm

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

P 511406 A
A 50617-T
DISTRICT 3rd

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

03-322440

DATE 2/9/99
DATE SYSTEM APPROVED 2/16/99
INSPECTOR Km

INDEXED

Van Sant Plumbing & Heating, Inc.

IS PERMITTED TO INSTALL X ALTER

ADDRESS 3 North Main St., Mt. Airy, MD 21771

PHONE 301-829-0444

SUBDIVISION Woodford's Grant LOT 22 44 ROAD 11339 Barley Field Way

PROPERTY OWNER Hamilton Reed

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS TOP SEAMED TANK

NUMBER OF BEDROOMS 4

180 SQUARE FEET PER BEDROOM

2/12/99
240 total
AM

180
3122
240

140
3120
240

LINEAR FEET OF TRENCH REQUIRED 280 260 *

TRENCHES - Trench to be 3 feet wide. Inlet 1.5 feet below original grade. Bottom maximum depth 3.0 feet below original grade. Effective area begins at 1.5 feet below original grade. 1.5 feet of stone below distribution pipe.

LOCATION - Begin trenches 130 feet up the left (265.94') lot line and 85 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.

*** INSTALL TRENCHES AS SHOWN ON ATTACHED SEPTIC PERMIT PLANS. *** 9-29-99 OK AM

*Trench length reduced to reserve repair area AM

PLANS APPROVED BY Kim Maiste/Amy McMillen

DATE 8/31/98

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.

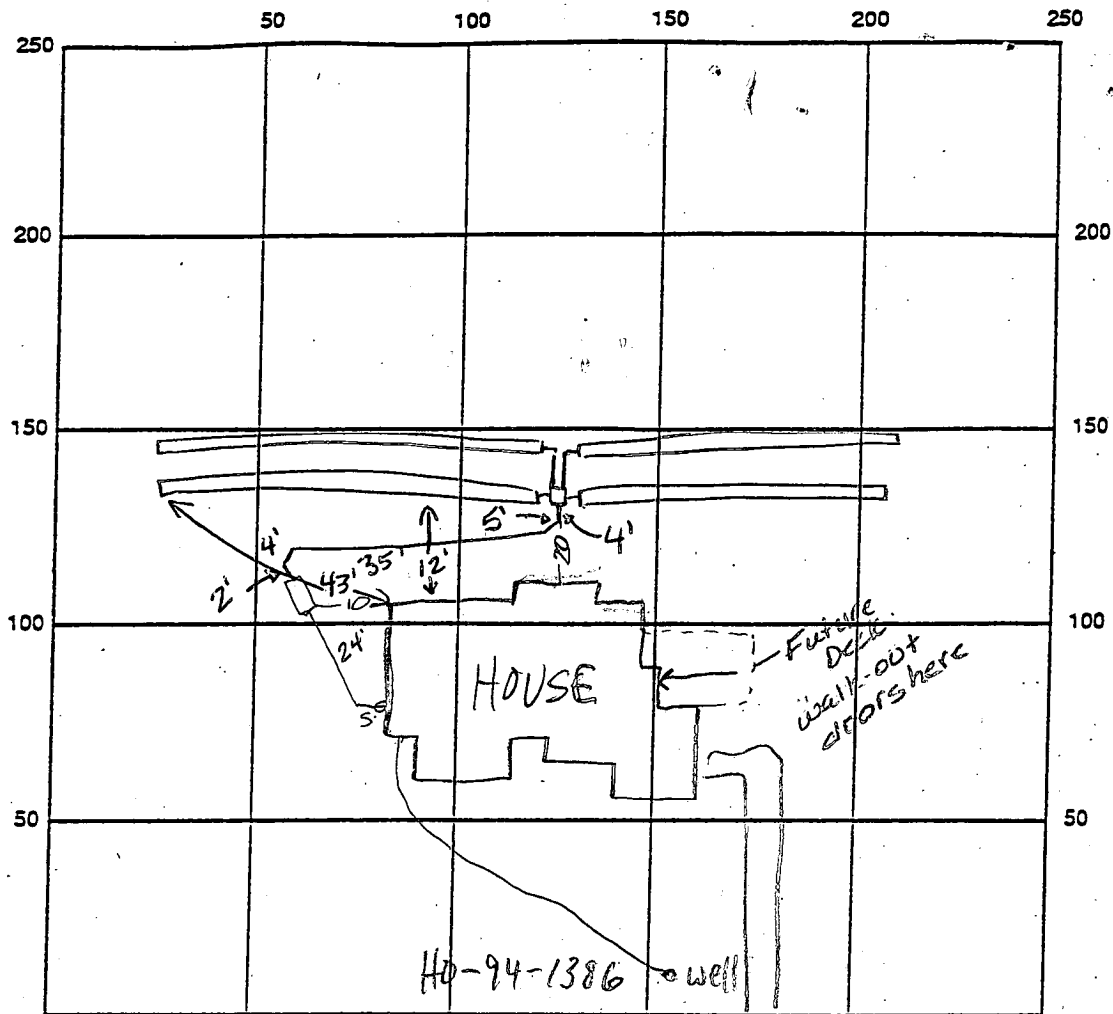
NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

*INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

OLD PERMIT
NO. RETURNED 7/9/00
B00125329 Deck

100111-1



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL OK CLEANOUTS 1 on tank, 1 at house
 DISTRIBUTION BOX LEVEL OK, has baffle
 DRAIN FIELD/TITLE DEPTH 3 FT. TRENCH WIDTH 3 FT. INLET DEPTH 1.5 FT.
 EFFECTIVE GRAVEL DEPTH 1.5 FT. TOTAL LENGTH 100 x 4 FT. → 240'
 NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA 720 SQ. FT.
 DRYWALL INSIDE DIAMETER FT. EFFECTIVE DEPTH BELOW INLET FT.
 ABSORBENT AREA SQ. FT.

REMARKS: 2/11/99 INSTALLER CONCERNED RE: SLOPES IN LOWER HALF OF SDA;

SAN AGREED SLOPES ARE CLOSE TO 25% BUT NOT PROHIBITIVE D.B. LOC ALSO PULLED UPHILL TO

PT. @ 20' FROM HOUSE, S.T. LOC DETERMINED; D.B. RECONSIDERED UPON

RECOGNITION OF DECK ISSUES; BLDR CONTACTED (AR) 2/12/99 Begin trenches 20'

off back of house & ran 4 trenches in both direction - deck initially proposed

in wrong location so no impact AM 2/16/99 OK to finish connecting trenches to db box + cover

DATE SYSTEM APPROVED 2/16/99 INSPECTOR Kim Mautz all work (AM)

APPLICATION

PERCOLATION TESTING

A 50617-00

P _____

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

DISTRICT _____

DATE 8-30-95

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 ~~e/o Land Design & Development, Inc.~~ Hamilton Reed

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

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Powell Property LOT NO. 18 2A

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

(11339 BARLEY FIELD WAY)

BLDG. PERMIT SIGNED

~~AND RETURNED~~ 8-31-95

Serial # B70113345

TAX MAP 10 PARCEL # 27, 29, 151

SIZE OF LOT 40,000 sq. ft. TYPE BLDG. single family home - 4 Bed
(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 _____

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 ~~10~~

LOT 18

COUNTY #

SOIL PROFILE
1045

0' very gravelly SCL

4' 20% 2'-3" rock frags w/ SL mica lgt tan surrounding

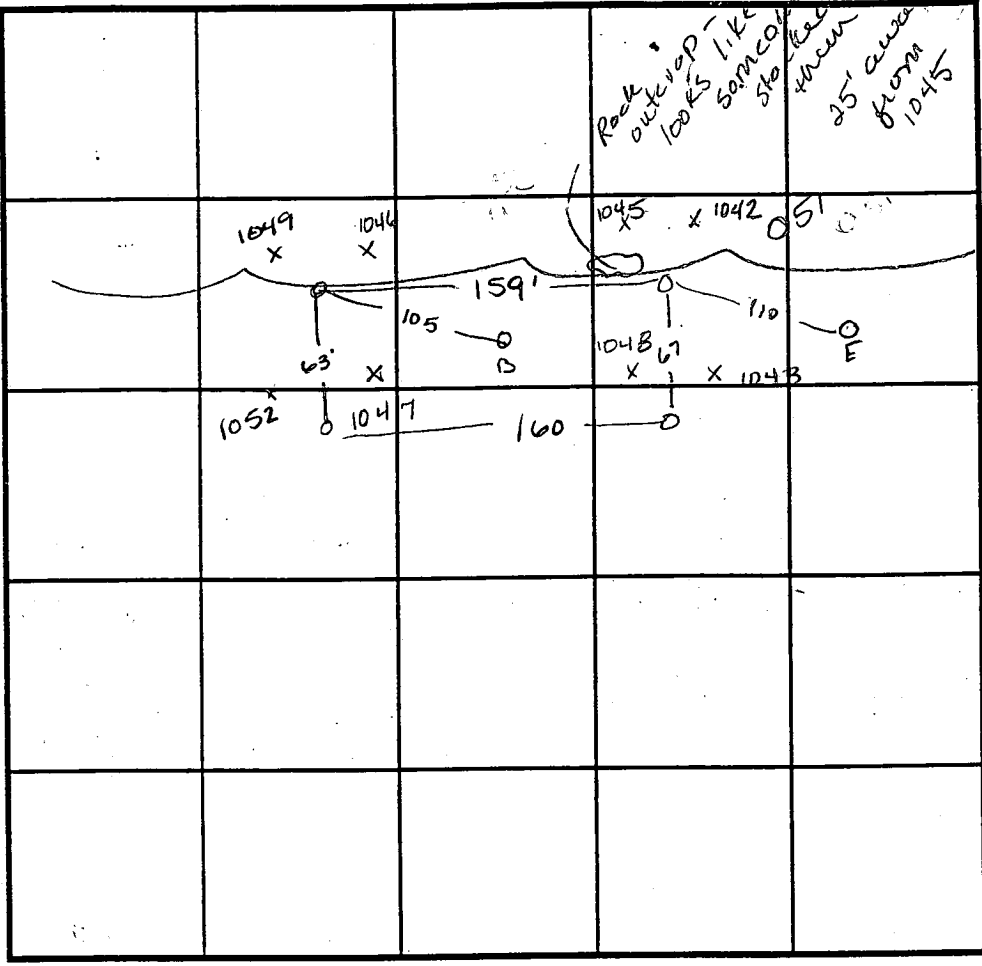
E 1048

brn grey blum mica SL <50% shale frags

OK

B

No distinct clay layer lgt tan Salm mica 10-15% Saprolite Shale Myp



SOIL PROFILE
50

0' dark brn silicm micaceous

2' lgt tan micaceous Salm <5% shale

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-30-94	1049	3' / V9'	8:36 ³⁰	8:37	8:37	8:37 ¹⁵	15 sec
	1049	repour	8:37 ⁴⁵	8:38	8:38 ³⁰	8:40 ³⁰	2 min
	1052	6' / V12	8:43 ⁴⁵	8:45	8:45	8:47	2 min
	1052	2.5' / V12	8:45 ¹⁵	8:46 ¹⁰	8:46 ¹⁰	8:47 ⁴⁵	1 1/2 min
	B	Visual	to	11'			OK
	1045	2.5' / V10'	8:59 ¹⁵	9:00 ³⁰	9:00 ³⁰	9:05 ³⁰	5 min ?
	1048	6' / V12	9:08 ³⁰	9:09 ¹⁵	9:09 ¹⁵	9:10 ⁴⁵	1 1/2 min
	1048	3' / V12	9:09 ¹⁵	9:10	9:10	9:10 ³⁰	30 sec
	1048	repour	9:11	9:11 ⁴⁵	9:11 ⁴⁵	9:12 ⁴⁵	1 min
	E	Visual	to	11'			OK

REMARKS 7-17-95 50 5' / V11' 10:41¹⁵ 10:42¹⁵ 10:42¹⁵ 10:43³⁰ 1/4 min

TYPE OF SOIL _____
 TESTED BY Amy McMillen ALSO PRESENT Olan Ketterman
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME 2 min TRENCH WIDTH 3'
 INLET DEPTH 1.5' MAXIMUM BOTTOM DEPTH 3' SQ. FT./BEDROOM 180 ft²

APPLICATION

PERCOLATION TESTING

A 50617-73

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.

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

AGENT OR PROSPECTIVE BUYER _____

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

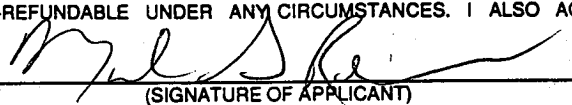
SUBDIVISION Powell Property LOT NO. TX 22

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

TAX MAP 10 PARCEL # 27, 29, 151

SIZE OF LOT 40,000 sq. ft. TYPE BLDG. single family home
(SINGLE FAMILY DWELLING OR COMMERCIAL)

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(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 _____

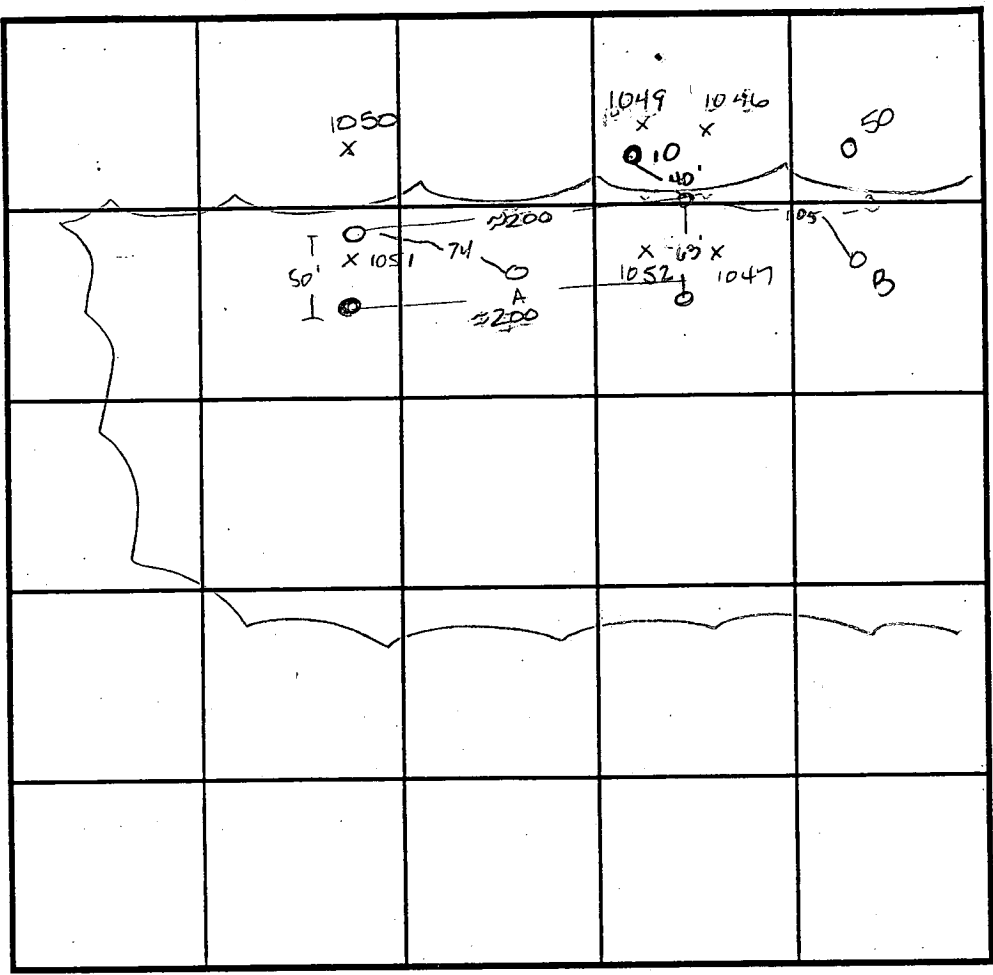
THIS IS NOT A PERMIT

A50617-T
COUNTY #

SOIL PROFILE
0' 1050-1051
brn CSL
2.5' 1gt tan ssil mica very powdery <5% rock frags

A
brn red micaceous sil
3.5' 1gt tan grey powdery ssil very micaceous many pockets of white decay quartz (quartz rock still evident)
10.5' hard bottom

B 1049 1052
No distinct clay layer
1gt tan .5L mica 10-15% saprolite shale mix



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	
11-30-94	1050	3' / 112'	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
	1051	Visual to	11.5				OK
	A	Visual to 10.5					OK
	1049	3' / 9'	8:36 ⁵⁰	8:37	8:37	8:37 ¹⁵	15 sec
	1049	repour	8:37 ⁴⁵	8:38 ³⁰	8:38 ³⁰	8:40 ³⁰	2 min
	1051	Visual to	11.5'				OK
	1052	1/2	8:43 ⁴⁵	8:45	8:45	8:47	2 min
	1052	52.5 / 112	8:45 ¹⁵	8:46 ¹⁰	8:46 ¹⁰	8:47 ⁴⁵	1 1/2 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 1.5 MAXIMUM BOTTOM DEPTH 3' SQ. FT./BEDROOM 180 ft²

COUNTY #

SOIL PROFILE

B

0'
No distinct clay layer
lgt tan Saltn mica
10-15% Saprolite
shale mix

12'

10

no distinct clay layer
dark brown Saltn micaceous
20% Saprolite

11'

50

2'
dark brn Saltn
lgt tan micaceous
Saltn <5% shale

2'

SOIL PROFILE

0'

Empty vertical box for soil profile.

Large empty grid for soil profile data.

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
11-30-95	B	Visual	to	11'			OK
5-10-95	10	3' VII	2:08 ³⁰	2:09 ⁴⁵	2:09 ⁴⁵	2:12	2 1/4 min
7-17-95	50	5' VII	10:41	10:42 ¹⁵	10:42 ¹⁵	10:43 ³⁰	1 1/4 min

REMARKS TEST HOLE 10 HAD A 12" X 12" TEST PIT WATCH FOR 25% SLOPE

TYPE OF SOIL

TESTED BY Amy McMillen

ALSO PRESENT

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME

TRENCH WIDTH

INLET DEPTH

MAXIMUM BOTTOM DEPTH

SO FT/ROOM



HOWARD COUNTY HEALTH DEPARTMENT

Joyce M. Boyd, M.D., County Health Officer

August 28, 1998

MEMORANDUM

To: Steve Forney
Hamilton Reed, LLC
10805 Hickory Ridge Road
Columbia, Maryland 21044

From: Amy Mc Millen, R.S.
Water & Sewerage Program

Re: Proposed Single Family Dwelling
Woodford's Grant, Section 1, Lot #44
11339 Barley Field Way

This is to confirm that the above referenced building permit application was recommended for approval subject to the following cautions:

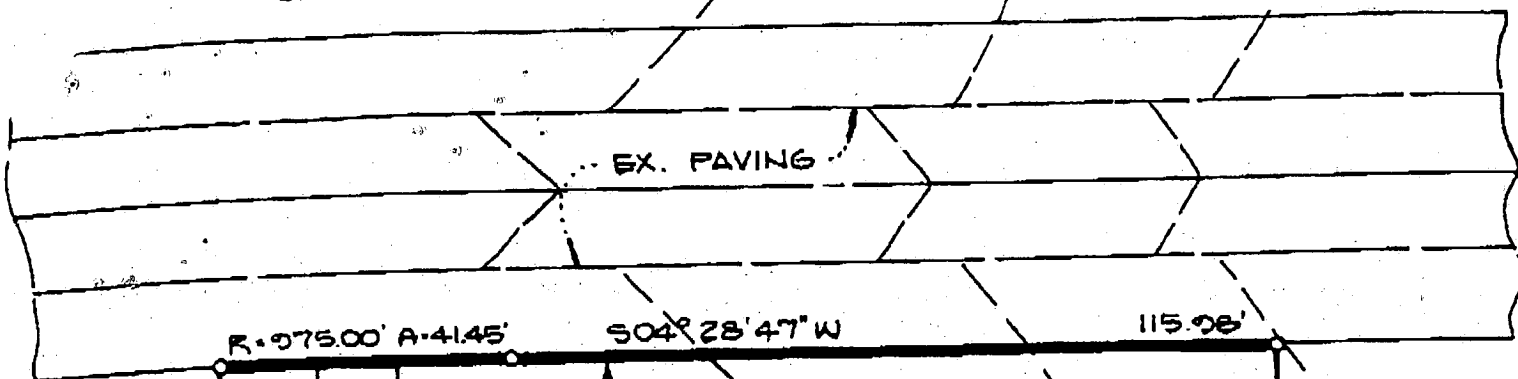
- The house shall be built exactly 20 feet from the septic easement. Because the required separation distance between a septic easement and any structure is 20 feet, building a deck on the rear of the house would not be possible with the current septic area location.
- Additional percolation testing shall be necessary to determine the probability of any adjustment to the septic easement. It is advised that you contact this office prior to installation of the septic system if you wish to modify the septic easement to accommodate a deck on the rear of the house, either now or in the future.

These conditions were discussed with you by phone on August 26, 1998.

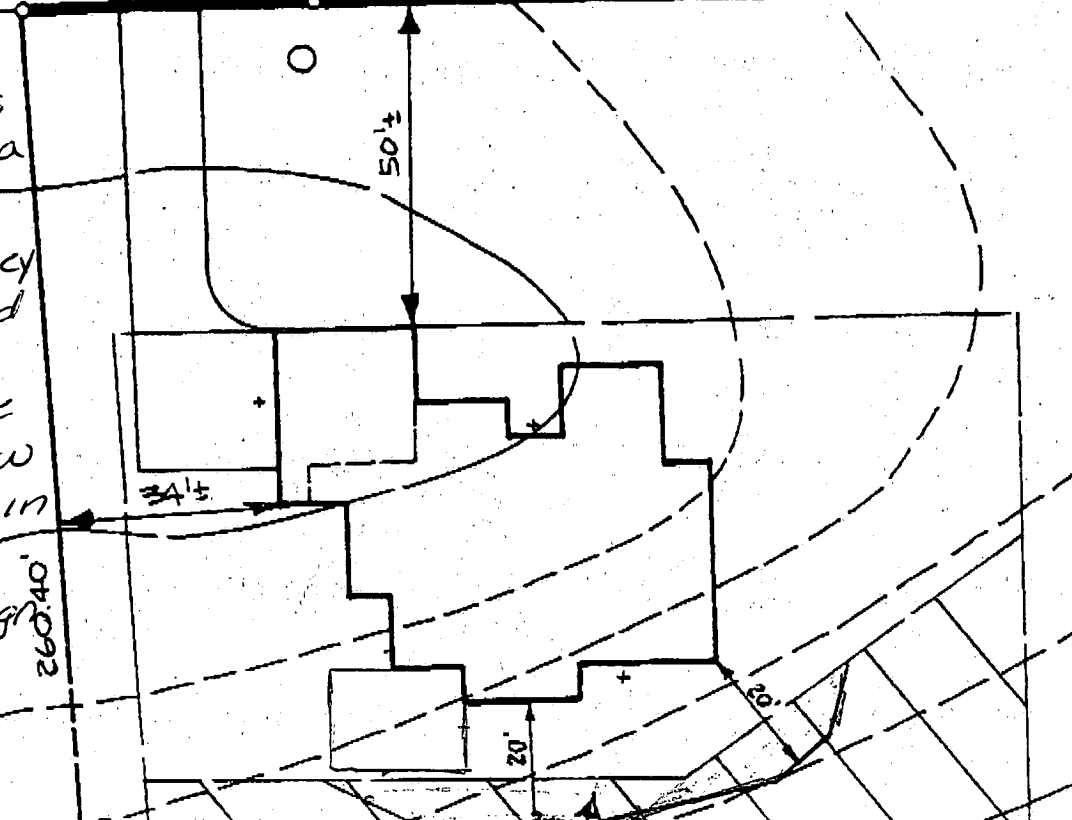
Health Department recommendation for approval of the building permit application was based upon your acceptance of this caution.

AM:am
cc: file

BARLEY



6/25/98
 Plan allows
 no room for a
 deck -
 contacted
 Steve Forney
 & requested
 a concept
 deck so we
 could allow
 for a deck in
 the 580
 Septic design
 All



ABANDONED SEPTIC AREA

PROPOSED SEPTIC AREA ADDITIONS

260.40'

587° 57' 21" E

10' BRL

570

560

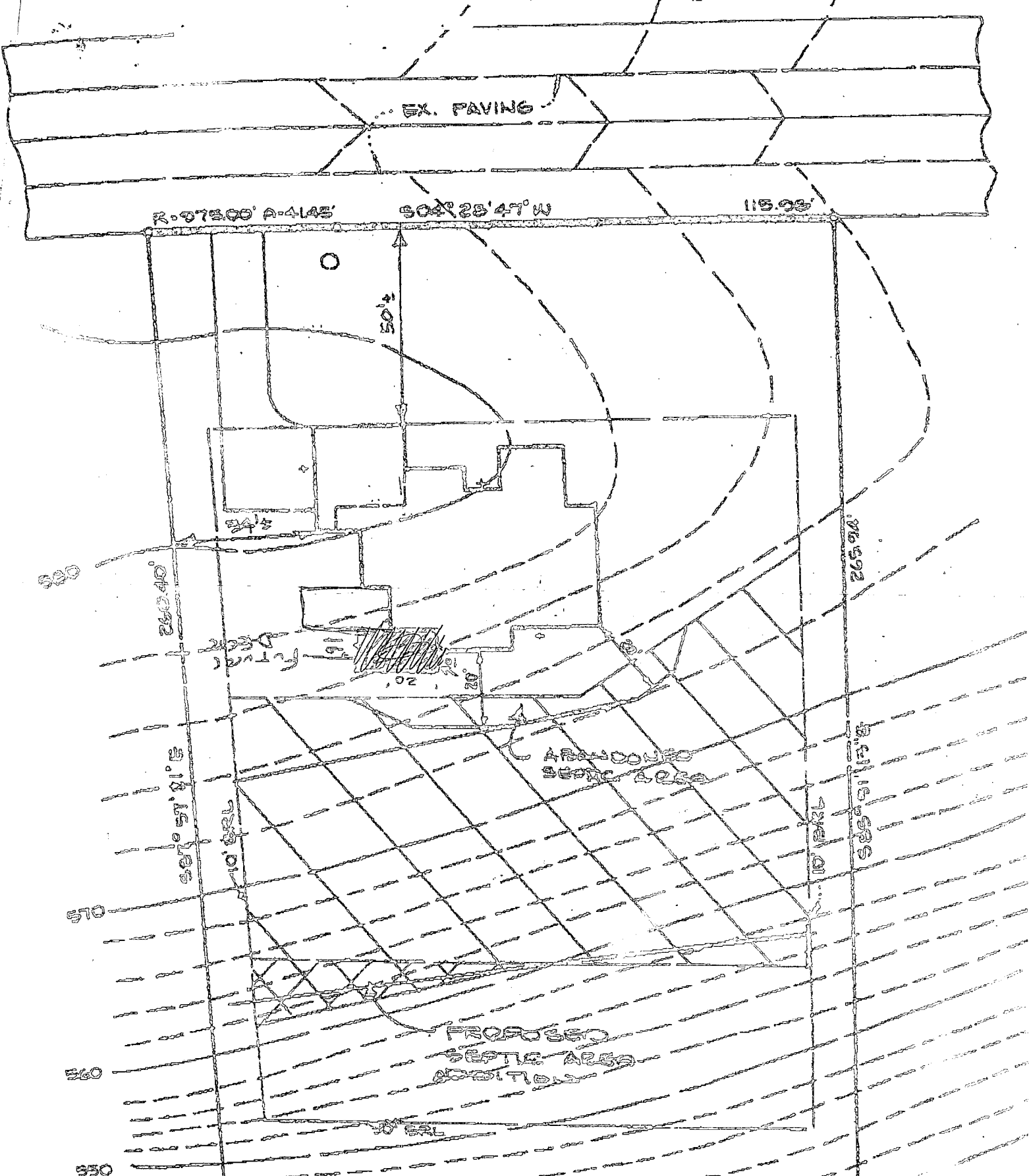
550

50' BRL

265.94'

10' BRL

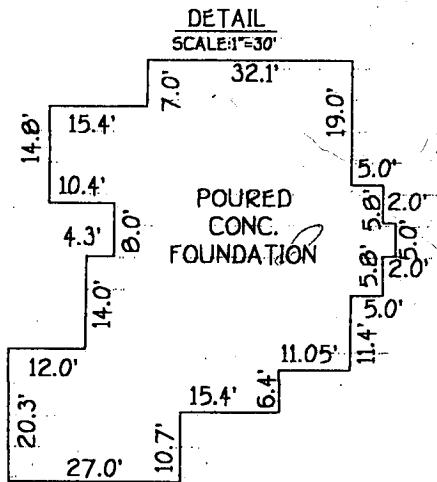
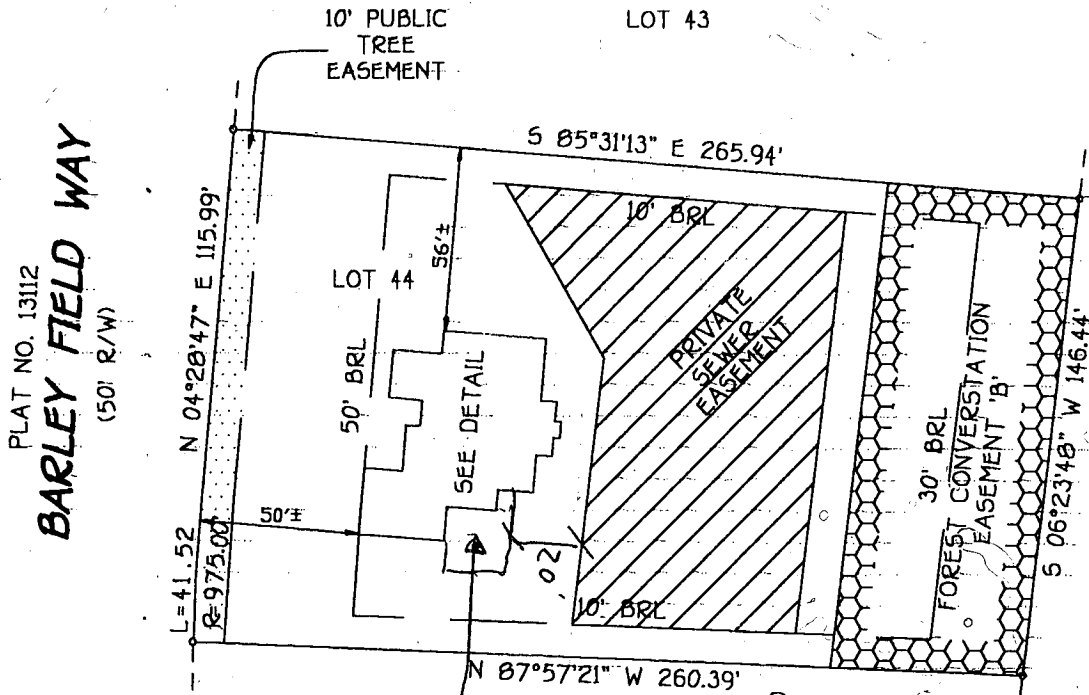
585° 31' 13" E



PLEASE FAX TO Amy to HEALTH DEPT.
 FAX# 410-313-2648

GENERAL NOTES:

- 1) THIS PLAT IS PREPARED FOR THE BENEFIT OF THE CLIENT SIGNING THE HOUSE LOCATION SURVEY APPROVAL FORM INsofar AS IT IS REQUIRED BY A LENDER OR TITLE INSURANCE COMPANY OR ITS AGENTS IN CONNECTION WITH THE CONTEMPLATED TRANSFER, FINANCING OR RE-FINANCING. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS PLAT IS NOT INTENDED FOR USE IN THE ESTABLISHMENT OF PROPERTY LINES AND IS NOT TO BE RELIED UPON FOR THE ESTABLISHMENT OR LOCATIONS OF FENCES, GARAGES, BUILDINGS OR OTHER EXISTING OR FUTURE IMPROVEMENTS. AS A RESULT, THIS PLAT DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINE, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING OR RE-FINANCING.
- 2) SUBJECT PROPERTY IS SHOWN IN ZONE C ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 2400440010 B, EFFECTIVE DATE: DEC. 4, 1986.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF 0.5' PLUS OR MINUS (+/-).

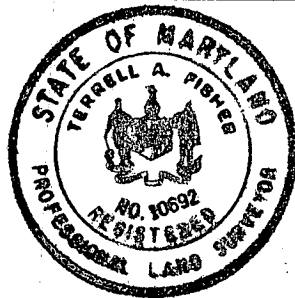


Future Deck

LOT 44
WOODFORD'S GRANT
LOTS 31 THRU 49 & PRESERVATION
PARCEL 'B' THUR 'H'
3RD ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PLAT # 13112

TOP FOUNDATION ELEV. = 580.9±
BRL = BUILDING RESTRICTION LINE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2855



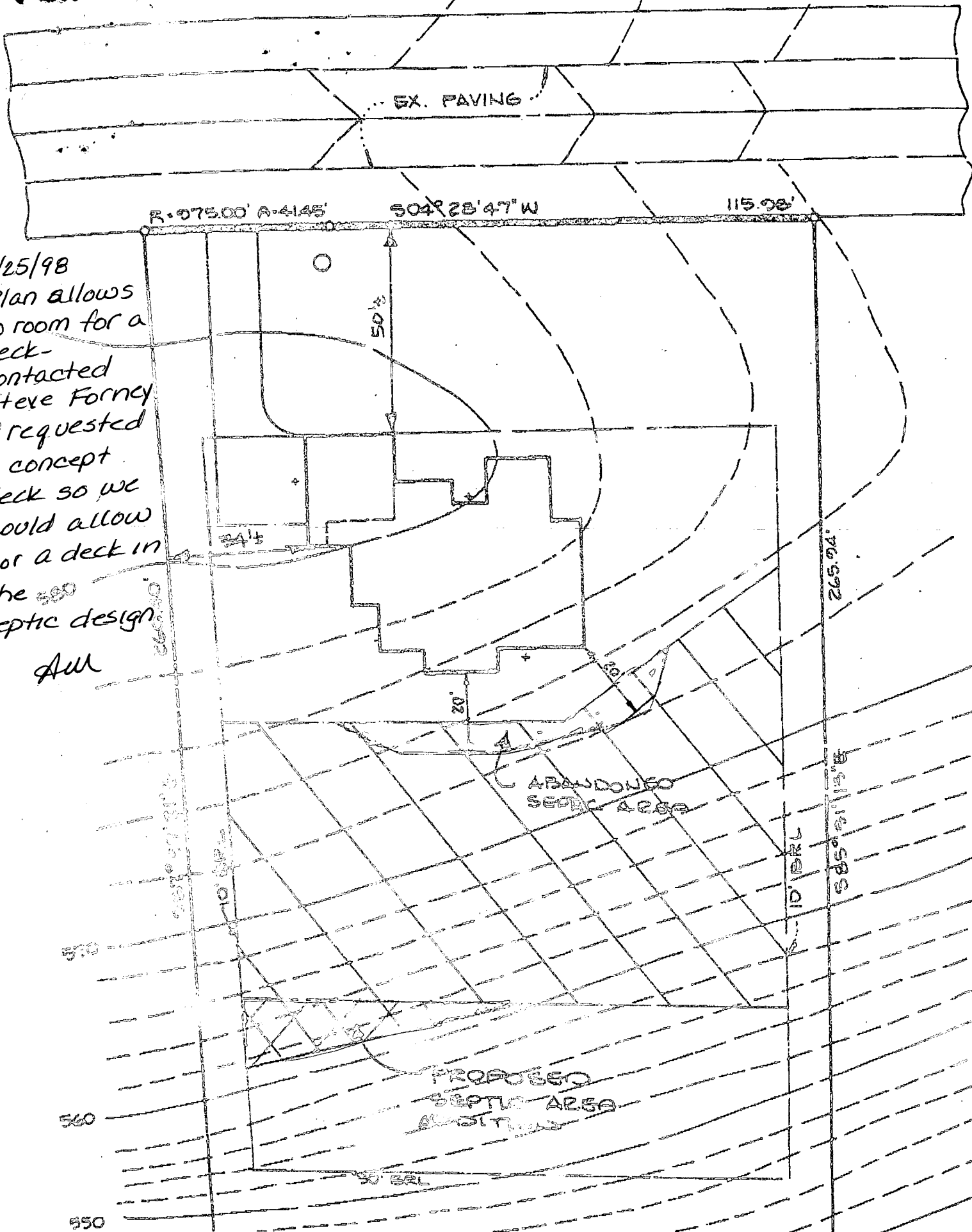
Terrill A. Fisher 9/16/98
PROFESSIONAL LAND SURVEYOR DATE
REG. # 10692

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 9/15/98
FINAL LOCATION: _____
BOUNDARY SURVEY: _____

SCALE: 1"=60'
DATE: 9/16/98
DRAWN BY: T.P.F.
CHECKED BY: T.A.F.
PROJECT No.: 61049

DATE **TIME** **BY**



6/25/98
 Plan allows
 no room for a
 deck-
 contacted
 Steve Forney
 & requested
 a concept
 deck so we
 could allow
 for a deck in
 the septic design.

AM

570
 560
 550

FISHER, COLLINS & CARTER, INC.

Terrell A. Fisher, PE, L.S.
Earl D. Collins, PE
Ronald B. Carter, L.S.
Charles J. Crovo, Sr., PE, L.S.

CIVIL ENGINEERING CONSULTANTS
AND LAND SURVEYORS

Transmittal

Via: Fax Mail Messenger E-Mail To Be Picked Up
 Fax (original to follow via U.S. Mail)

To: HOWARD COUNTY HEALTH DEPT.

ATTN: AMY

From: MIKE MARCELLINO W.O.# 61049

Fax: 410-313-2648 Pages: 2 Page(s) including this cover page

Phone: 410-313-2640 Date: 6-24-98

Re: WOODFORD'S GRANT, LOT ⁴⁴ CC: STEVE FORNEY

We are forwarding: Prints Copy of letter Specifications Shop drawings Other

Urgent For your review and comment For your use As requested

Remarks:

PLEASE NOTE THE SEPTIC AREA ON LOT 22 IS NOT 20' FROM PROP. HOUSE. I WOULD LIKE TO ADJUST THE SEPTIC AREA AS SHOWN. PLEASE ADVISE.

THKS
[Signature]

CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITION AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

6/30/98
DATE

SIGNATURE OF ENGINEER

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT.

7/2/98
DATE

SIGNATURE OF DEVELOPER

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

7/20/98
DATE

SIGNATURE OF REVIEWER

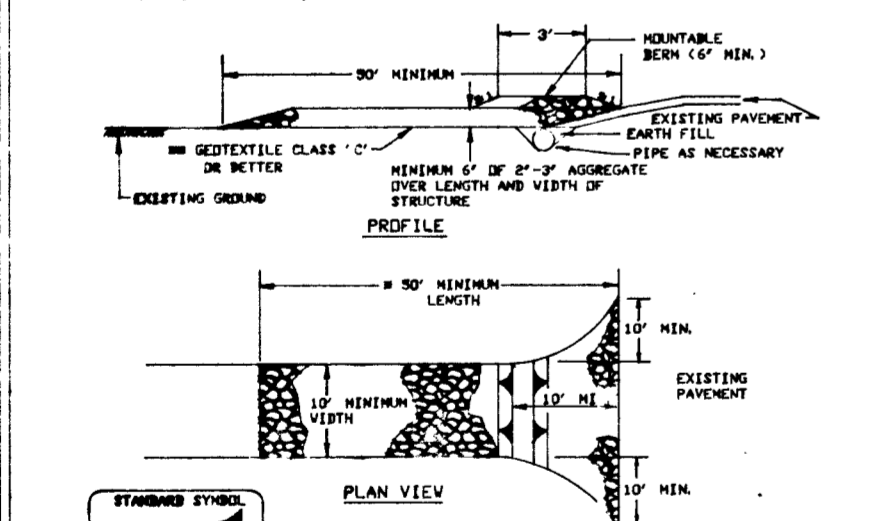
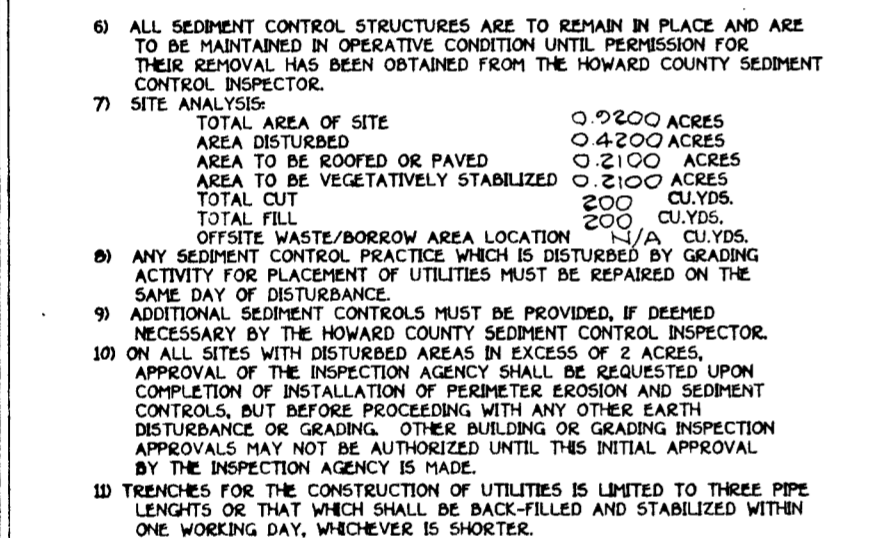
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

THIS DEVELOPMENT IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

7/20/98
DATE

SIGNATURE OF APPROVER

- SEDIMENT CONTROL NOTES**
- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (133-1955).
 - ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THEREOF.
 - FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DICES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1; b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
 - ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
 - ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING (SEC. 501 (SEC. 54)), TEMPORARY SEEDING (SEC. 500 AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
 - ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - SITE ANALYSIS:
 - TOTAL AREA OF SITE: 0.2800 ACRES
 - AREA DISTURBED: 0.4200 ACRES
 - AREA TO BE ROOFED OR PAVED: 0.2100 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 0.2100 ACRES
 - TOTAL CUT: 200 CU.YDS.
 - TOTAL FILL: 200 CU.YDS.
 - OFFSITE WASTE/BORROW AREA LOCATION: 200' A CU.YDS.
 - ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
 - ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
 - ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
 - TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.



- Length - minimum of 50' (100' for single residence lots).
- Width - 10' minimum, should be placed at the existing road to provide a turning radius.
- Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing silt fence. The plan approval authority may not require single family residences to use geotextile.
- Stone - crushed aggregate (2" to 3") or recycled or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the entrance.
- Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a removable berm with 5:1 slopes and a minimum of 12" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.
- Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

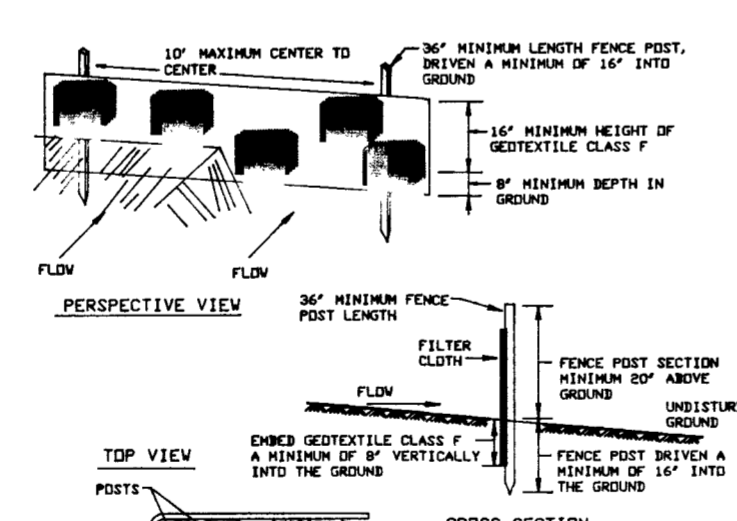
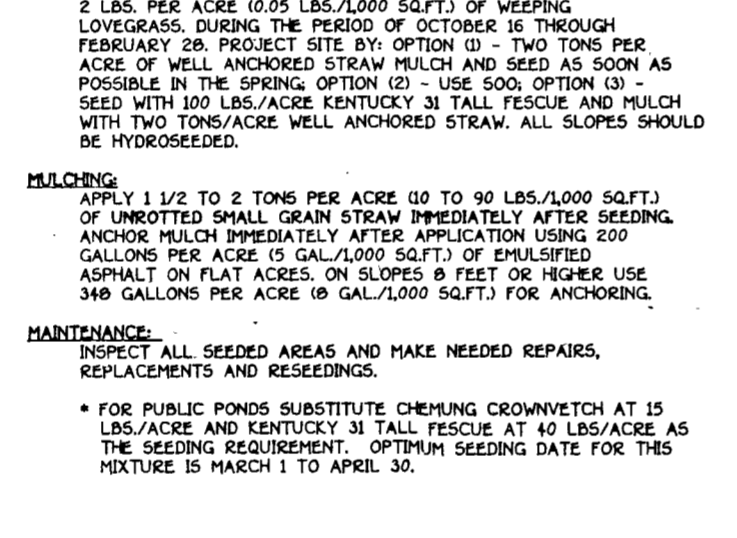
STABILIZED CONSTRUCTION ENTRANCE - 2

NOT TO SCALE

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
200 CENTENNIAL SQUARE OFFICE PARK - 10707 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855

- SEQUENCE OF CONSTRUCTION**
- OBTAIN GRADING PERMIT.
 - INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN. (1 day)
 - PERFORM NECESSARY GRADING AND STABILIZE THE SITE. (2 days)
 - CONSTRUCT DWELLING ON SITE. (90 days)
 - AFTER THE SITE IS STABILIZED AND PERMISSION IS GRANTED FROM THE SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT CONTROLS AND STABILIZE ANY REMAINING DISTURBED AREAS.
- TEMPORARY SEEDING NOTES**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION**
- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS**
- APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS./1000 SQ. FT.)
- SEEDING**
- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSHEL PER ANNUAL RYE (3.2 LBS./1000 SQ.FT.) FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS (07 LBS./1000SQ.FT.). FOR THE PERIOD NOVEMBER 15 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOO.
- MULCHING**
- APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 210 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER, USE 340 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.
- REFER TO THE 1998 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.
- PERMANENT SEEDING NOTES**
- ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
- SEEDING PREPARATION**
- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS**
- APPLY TWO TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS./1000 SQ.FT.) AND 600 LBS. PER ACRE 0-20-20 FERTILIZER (14 LBS./1000 SQ.FT.) BEFORE SEEDING HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING APPLY 400 LBS. PER ACRE 38-0-0 UREAFORM FERTILIZER (9 LBS./1000 SQ.FT.) AND 500 LBS. PER ACRE (11.5 LBS./1000 SQ.FT.) OF 10-20-20 FERTILIZER.
- SEEDING**
- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 100 LBS. PER ACRE (2.3 LBS./1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE (1.4 LBS./1000 SQ.FT.) KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (0.05 LBS./1000 SQ.FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY: OPTION (1) - TWO TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING; OPTION (2) - USE SOO; OPTION (3) SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEEDED.
- MULCHING**
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- MAINTENANCE**
- INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
- * FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNVECH AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS A MINIMUM OF 8" VERTICALLY INTO THE GROUND. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

- TEMPORARY SEEDING NOTES**
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- Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be 1 1/2" x 1 1/2" square (minimum cut), or 1 3/4" diameter (minimum round) and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pound per linear foot.
- Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements for Geotextile Class F:

Tensile Strength	50 lbs/in (min.)	Test MSMT 509
Tensile Modulus	20 lbs/in (min.)	Test MSMT 509
Flow Rate	0.3 gal/ft ² /minute (max.)	Test MSMT 382
Filtering Efficiency	75% (min.)	Test MSMT 382
- Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.
- Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reaches 50% of the fabric height.

STABILIZED CONSTRUCTION ENTRANCE - 2

NOT TO SCALE

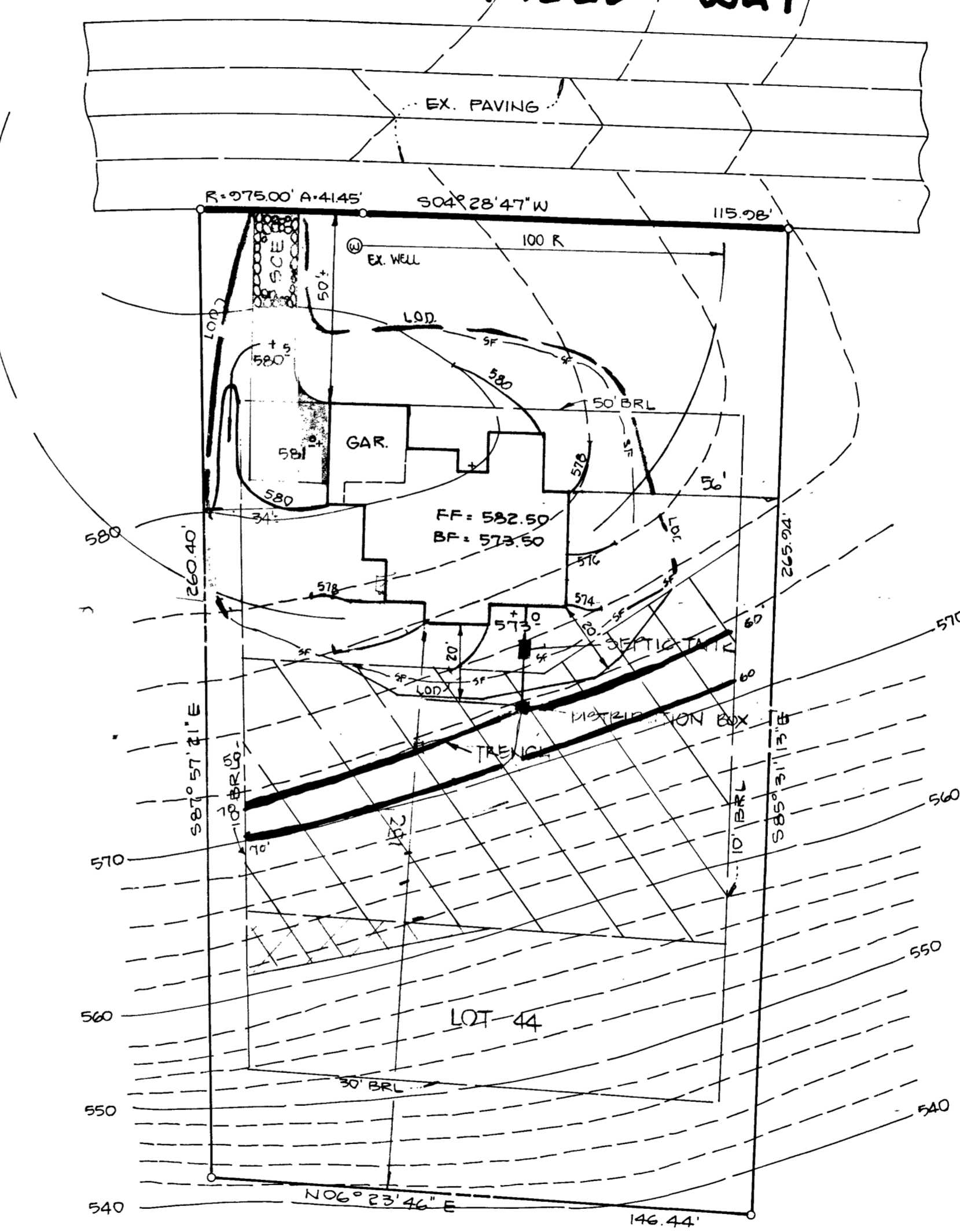
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
200 CENTENNIAL SQUARE OFFICE PARK - 10707 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461-2855

TOPSOIL SPECIFICATIONS - SOIL TO BE USED AS TOPSOIL MUST MEET THE FOLLOWING:

TOPSOIL SHALL BE A LOAM, SANDY LOAM, CLAY LOAM, SILT LOAM, SANDY CLAY LOAM, LOAMY SAND. OTHER SOILS MAY BE USED IF RECOMMENDED BY AN AGRONOMIST OR SOIL SCIENTIST AND APPROVED BY THE APPROPRIATE APPROVAL AUTHORITY. REGARDLESS, TOPSOIL SHALL NOT BE A MIXTURE OF CONTRASTING TEXTURE SUBSOILS AND SHALL CONTAIN LESS THAN 5% BY VOLUME OF CINDERS, STONES, SLAG, COARSE FRAGMENTS, GRAVEL, STICKS, ROOTS TRASH, OR OTHER MATERIALS LARGER THAN 1 1/2" IN DIAMETER.

TOPSOIL MUST BE FREE OF PLANTS OR PLANT PARTS SUCH AS BERMUDA GRASS, QUACKGRASS, JOHNSONGRASS, NUTSEDGE, POISON IVY, THISTLE, OR OTHERS AS SPECIFIED.

WHERE THE TOPSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIME SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.



Total linear feet of trench required 240 feet

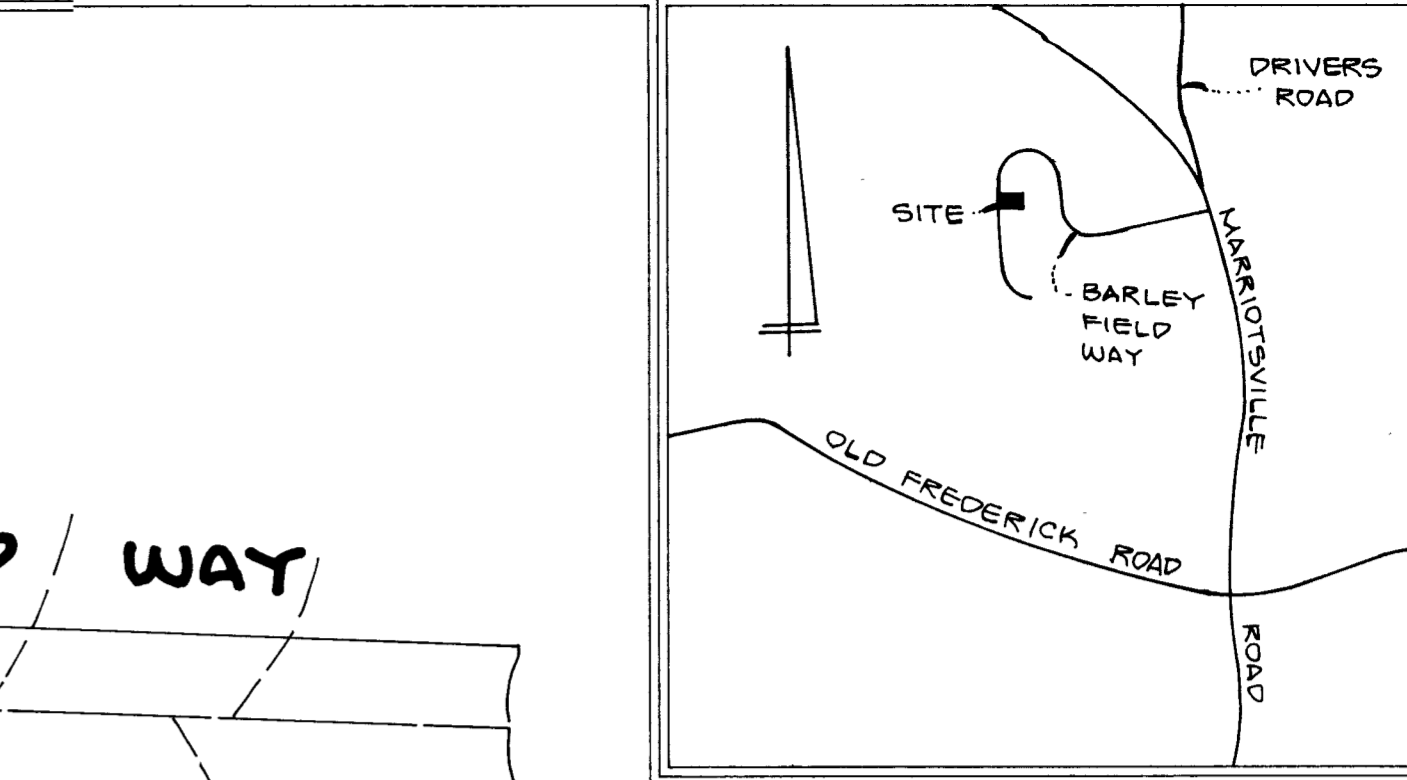
Width of trench (es) 3.0 feet

Depth of trench (es) 3.0 feet

Depth of stone required below distribution pipe 1.5 feet

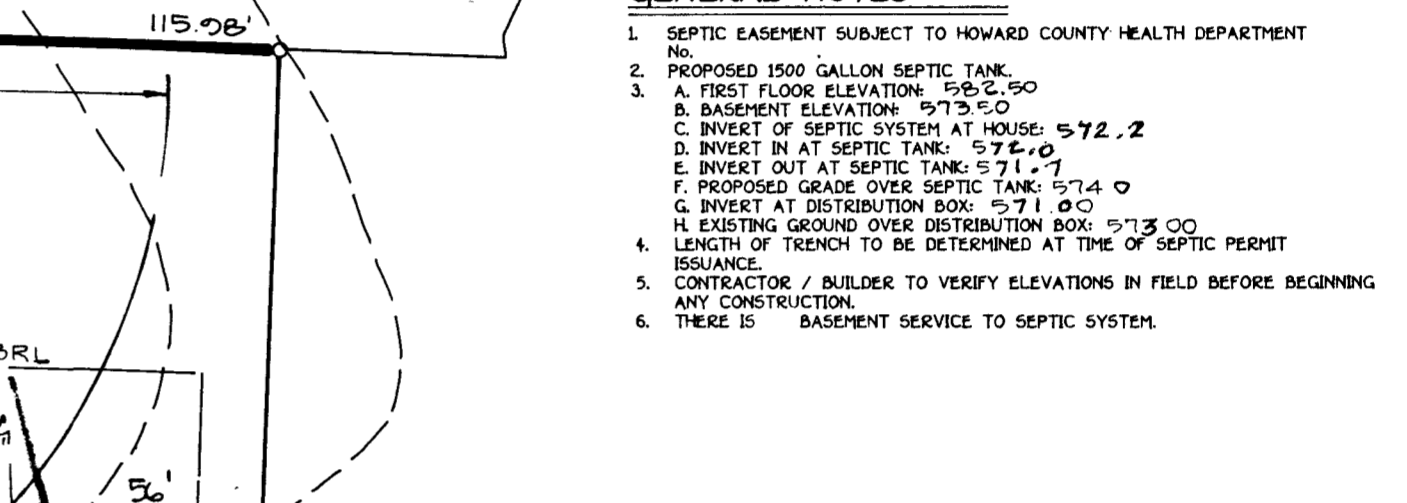
Approved Septic System Plan
Howard County Health Department

[Signature] 8/31/98
Signature Date



GENERAL NOTES

- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No.
- PROPOSED 1500 GALLON SEPTIC TANK
- A. FIRST FLOOR ELEVATION: 582.50
B. BASEMENT ELEVATION: 573.50
C. INVERT OF SEPTIC SYSTEM AT HOUSE: 572.2
D. INVERT IN AT SEPTIC TANK: 571.0
E. INVERT OUT AT SEPTIC TANK: 571.7
F. PROPOSED GRADE OVER SEPTIC TANK: 574.0
G. INVERT AT DISTRIBUTION BOX: 571.00
H. EXISTING GROUND OVER DISTRIBUTION BOX: 573.00
- LENGTH OF TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR / BUILDER TO VERIFY ELEVATIONS IN FIELD BEFORE BEGINNING ANY CONSTRUCTION.
- THERE IS BASEMENT SERVICE TO SEPTIC SYSTEM.



PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT

WOODFORD'S GRANT

LOT 44

TAX MAP: 10 PARCELS: 27, 29, 31

3RD ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE: 1"=30' DATE: JUNE 25, 1998

WOODFORD'S GRANT

LOT 44

TAX MAP: 10 PARCELS: 27, 29, 31

3RD ELECTION DISTRICT HOWARD COUNTY, MD.

SCALE: 1"=30' DATE: JUNE 25, 1998

B 1 8726

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL please print or type

STATE PERMIT NUMBER

40-94-1386 fill in this form completely

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

Date Received (APA)

012898

OWNER INFORMATION

HAMEL How E Reed

10805 HICKORY RIDGE

COLUMBIA MD 21044

LOCATION OF WELL

HOWARD

WOODFORDS GRANT

SECTION 1 LOT 22

MARRIOTTSVILLE

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

DRILLER INFORMATION

CIRCLE: MSD/MGD/MWD

Ralph MAYNE

116

Driller's Name License No. 80

Ralph MAYNE (well drilling)

9120 Brown Church Rd. N.H. Aing

Address: Kalle Mayne 1-21-98 Date

Barley Fields Way

Diagram showing directions of well from town (N, NE, E, SE, S, SW, W, NW) and a compass rose with 'NORTH', 'WEST', 'EAST', 'SOUTH' labels. Includes text: 'ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)'. Box 25 is circled. Includes text: 'DISTANCE FROM ROAD ENTER FT OR MI'. Box 38 is circled.

WELL INFORMATION

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

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500

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 Co. A5061700

STATE SIGNATURE DATE ISSUED 012898 A McMullen 1/28/99 EXP. DATE NORTH GRID 546000 EAST GRID 0828000

APPROXIMATE DEPTH OF WELL 150 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

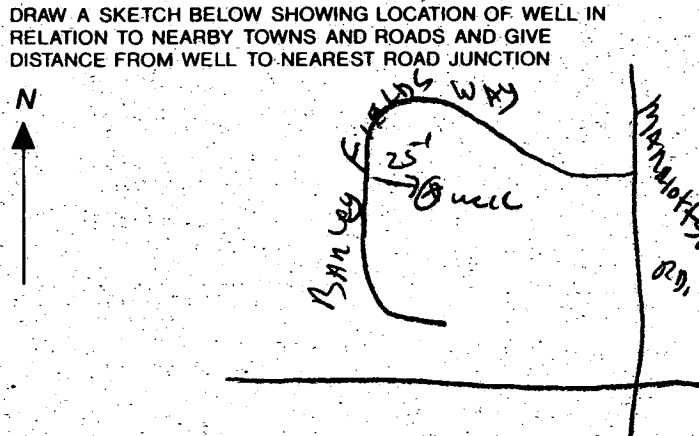
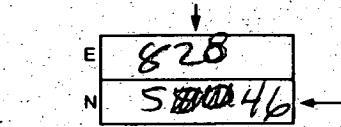
METHOD OF DRILLING (circle one)

- 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)

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. well



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

APPROP. PERMIT NUMBER GAP

FORCE AM PERMIT No. 40-94-1386

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET-IF NEEDED

HOWARD COUNTY HEALTH DEPARTMENT
 Bureau of Environmental Health
 3525 H Ellicott Mills Drive
 Ellicott City, MD 21043
 461-9933

APPLICATION FOR PITLESS ADAPTER, WELL PUMP AND PRESSURE TANK INSTALLATION

New Installation
 Replacement _____

Receipt # _____
 Date _____

Name of Installer CLARKE P+H INC

Telephone 489-4029

License Number 3808

Certified Well Pump Installer _____ Well Driller _____ Registered Plumber

Name of Property Owner Hamilton Reed

Telephone 740-2150

Subdivision Woodlands Grant Lot # 44

Well Tag # _____

Site Address 11339 BARLEY FIELD WAY

Pump

- Type
 - Deep well jet _____
 - Shallow well jet _____
 - Submersible
- Make _____
- Model # _____
- Capacity _____ GPM
- Pump exceeds well capacity Yes _____ No _____
- If Yes, is low pressure cutoff switch installed? Yes _____ No _____
- What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors _____ Cable guards Other _____

Motor

- Horsepower _____
- RPM _____
- Voltage _____
 - 110 _____
 - 220

Pitless Adapter

- Make P-T-800
- Model # _____
- Depth 42"

Tank

- Capacity 42
- Pressure relief valve? 7516

Piping

- Type Plastic
- Size 1"
- NSF and/or BOCA Code approved _____
- Depth of supply line 42"

Well data

- Depth _____ ft.
- Yield _____ GPM
- Static water level _____ ft.
- Will water supply be disinfected by installer? NO

2/10/99

P.A. OK @ 3' B.G.
 2-PC CAP OR (MC)

I understand that it is my responsibility to notify the Howard County Health Department when the installation is ready for inspection (otherwise this permit is null and void).

All information given above is true to the best of my knowledge.

Signature of Applicant: Bennett C. Clarke

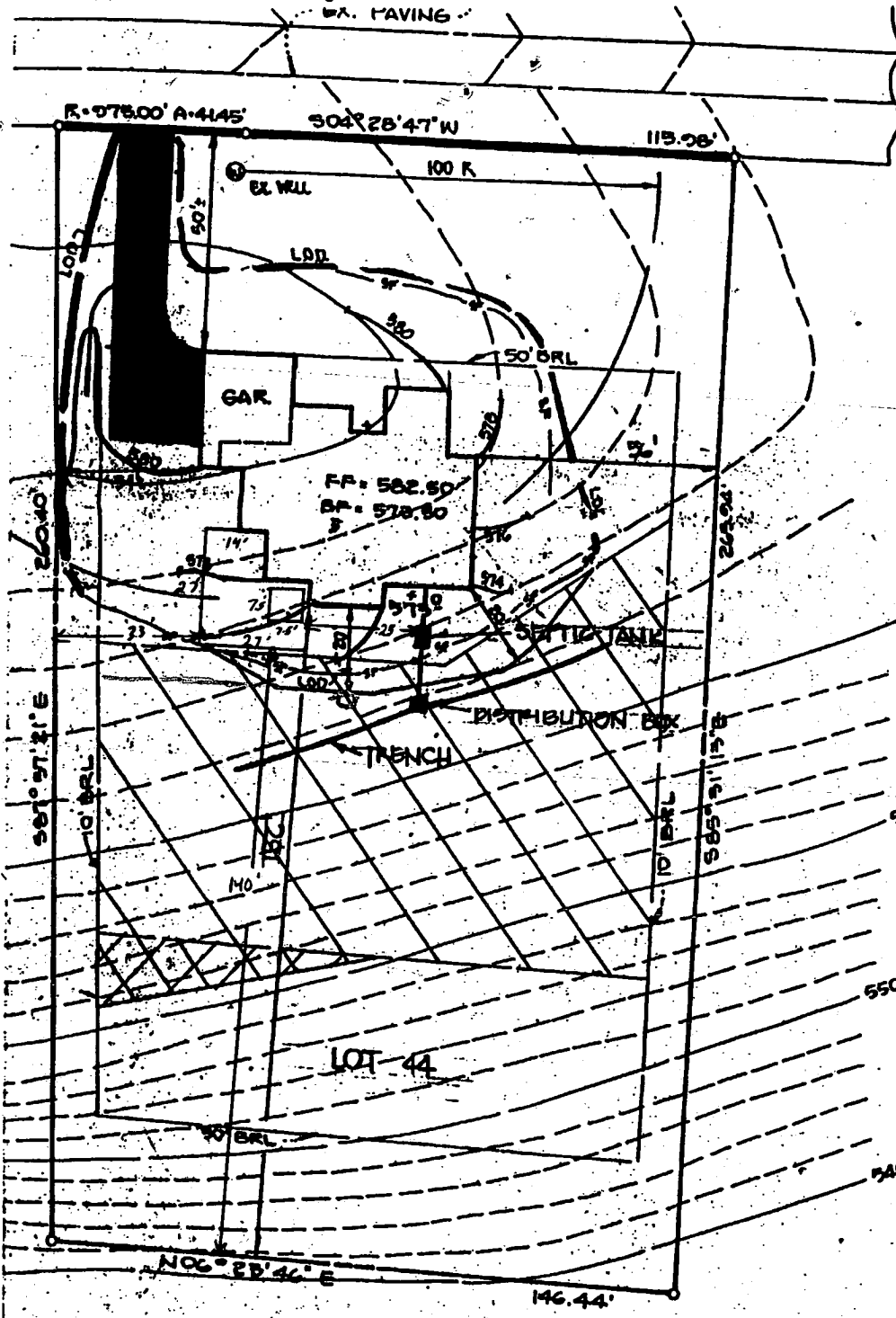
Date: 1-28-99

Note: A sticker indicating approval/status of the installation will be placed on the well casing at the time of the inspection.

HD-215

GENERAL

1. SEPTIC CASING No.
2. PROPOSED 1500
3. A. FIRST FLOOR
B. BASEMENT
C. INVERT OF
D. INVERT IN
E. INVERT OUT
F. PROPOSED C
G. INVERT AT
H. EXISTING OR LENGTH OF THE ISOLANCE
4. CONTRACTOR / ANY CONSTRUCTION THERE IS



7/16/00
 Shown deck will be 12' off drainfields because they are 20' off back of house & deck extends 8' beyond back of house



PROPC

Sullivan

PLAN TO AC
 FOR B
WOODFOI

TAX MAP 10
 5th ELECTION DIST
 SCALE: 1" = 40'