

3/26/99
Anytime

PERMIT

SEWAGE DISPOSAL SYSTEM

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

04-360117

P 511472

A 57045-E

DISTRICT _____

DATE 3/23/99

DATE SYSTEM APPROVED 3/26/99

INSPECTOR AM

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

INDEXED

WTC III Plumbing & Heating, Inc. IS PERMITTED TO INSTALL ALTER _____

ADDRESS 1820 Gillis Falls Road Woodbine, MD 21797 PHONE (410) 489-4457

SUBDIVISION Ridgely Station LOT 4 ROAD 17254 Hardy Road

PROPERTY OWNER Vance Merson

ADDRESS _____

SEPTIC TANK CAPACITY 1250 GALLONS

NUMBER OF BEDROOMS 4

240 SQUARE FEET PER BEDROOM

LINEAR FEET OF TRENCH REQUIRED 320

TRENCHES - Trench to be 3 feet wide. Inlet 3 feet below original grade. Bottom maximum depth 5 feet below original grade. Effective area begins at 4 feet below original grade. 2 feet of stone below distribution pipe.

LOCATION - Beginning from the intersection of the 412.83' and 100.00' lot lines, begin trenches 220 feet up the 412.83' lot line and 10 feet off that same lot line. Run trenches on contour toward the 408.58' lot line.

NOTES - No trench to exceed 100 feet in length. Provide 6" - 8" diameter cleanout and cap to grade or above on septic tank. 11/10/98 OK AM

PLANS APPROVED BY Amy McMillen/Craig Williams DATE 11-04-98

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

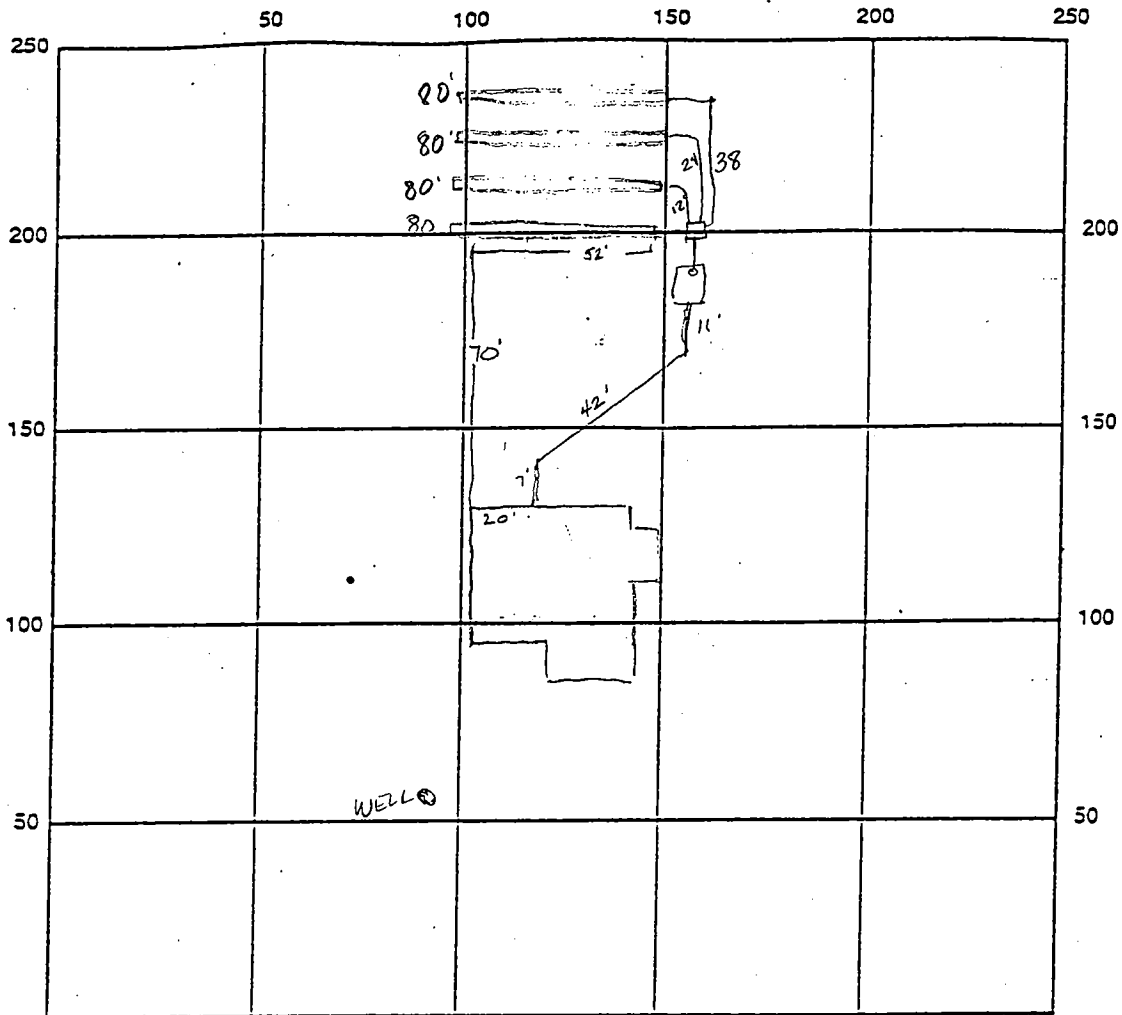
NOTE: INSTALL STAND PIPE ON SEPTIC TANK AND DRY WELL STAND PIPES MUST BE 6 INCHES IN DIAMETER CAST IRON. CONCRETE OR TERRA COTTA OR PVA OR ABS ACCEPTED. IF TOP OF SEPTIC TANK IS DEEPER THAN 3 FEET. MANHOLE TO GRADE REQUIRED.

NOTE: DISTRIBUTION BOXES MUST HAVE BAFFLES

***INSTALLER IS RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT**

*CALL 461-9933 FOR INSPECTION OF SEPTIC SYSTEM.

57045-E



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE

SEPTIC TANK LEVEL 12509a CLEANOUTS OK

DISTRIBUTION BOX LEVEL OK baffle is in

DRAIN FIELD/TITLE DEPTH 5.0 FT. TRENCH WIDTH 30 FT. INLET DEPTH 3.0 FT.

EFFECTIVE GRAVEL DEPTH 2.0 FT. TOTAL LENGTH 320 FT.

NUMBER OF TRENCHES 4 ONE SIDEWALL/BOTTOM AREA 960 SQ. FT. $\frac{320 \times 3}{0}$

DRYWALL INSIDE DIAMETER — FT. EFFECTIVE DEPTH BELOW INLET 2.0 FT.

ABSORBENT AREA — SQ. FT.

REMARKS: 3/26/99 OK to cover all work A

DATE SYSTEM APPROVED 3/26/99 INSPECTOR Arno McMill

APPLICATION

PERCOLATION TESTING

A 57045D

P _____

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

DISTRICT Fourth

DATE July 23, 1996

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 VANCE MORGAN AND CHARLES SCHWAB

ADDRESS 7435 NATIONAL DRIVE MT. AIRY MARYLAND 21771 PHONE 301-829-3024

AGENT OR PROSPECTIVE BUYER SAME AS ABOVE

ADDRESS _____ PHONE _____

PROPERTY LOCATION:

SUBDIVISION Ridgely Station LOT NO. 4

ROAD AND DESCRIPTION 2600' ± West from the intersection of Hardy Road and St. Michaels Road.
(17234 Hardy Road)

TAX MAP 7 PARCEL # 9

**BLDG. PERMIT SIGNED
AND RETURNED 11-4-88
Serial # B00114683**

SIZE OF LOT _____ TYPE BLDG. SINGLE FAMILY DETACHED DWELLING - 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. Vance W Morgan
(SIGNATURE OF APPLICANT)

APPROVED BY _____ FOR _____ DATE _____

DISAPPROVED BY _____ FOR _____ DATE _____

HOLD PENDING FURTHER TESTS _____

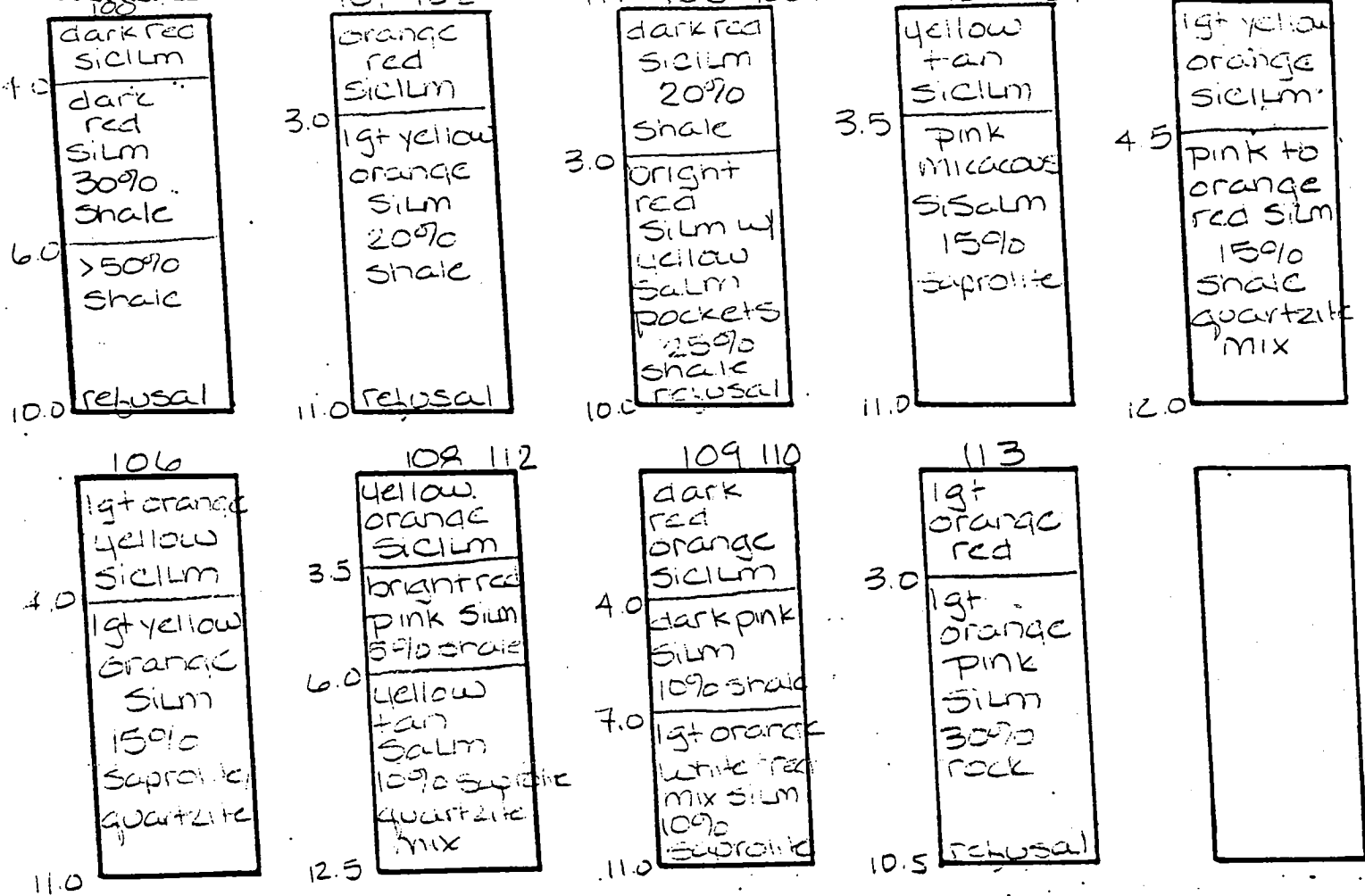
REASONS FOR REJECTION OR HOLDING _____

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

SOIL PROFILE



DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
E-8-96	100	Insuff	cient	depth to	bedrock	see	F
	100-A	Visual	to	11.0	- see	profile	OK
	101	4.0 / 11.0	10:38	10:50	10:50	10:59	9min
	102	Visual	to	11.0	- see	profile	OK
	103	4.0 / 10.0	9:50	10:05	10:05	10:26	21min
	103	7.5 / 10.0	10:00	10:03	10:03	10:08	5min
	104	6.0 / 11.0	10:05	10:12	10:12	10:25	13min
	105	Visual	to	12.0	- see	profile	OK
	106	4.5 / 11.0	10:17	10:36	10:36	11:06	30min
	107	4.0 / 12.5	10:33	10:35	10:35	10:45	10min
	108	Visual	to	12.5	- see	profile	OK
	109	4.5 / 11.0	11:08	11:11	11:11	11:16	5min
	109	8.0 / 11.0	11:16	11:19	11:19	11:23	4min
	110	4.0 / 10.0	10:42	10:54	10:54	11:17	23min

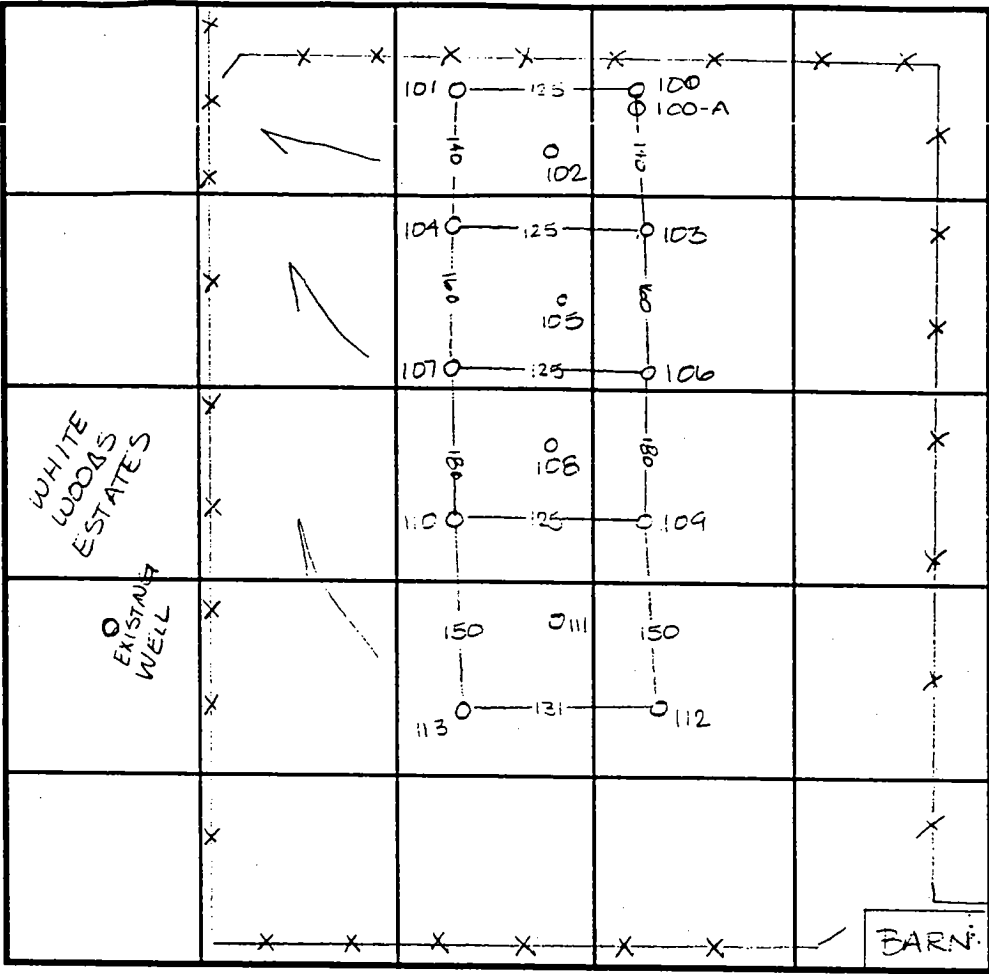
TESTED BY Ann McMillen ALSO PRESENT Alan Ketchum

A57045A-E

COUNTY #

SOIL PROFILE

0'



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-8-96	111	Visual to		10.5	SCC profile		OK
	112	4.0 √12.0	11:40	11:43	11:43	11:47	4min
	113	3.5 √10.5	11:42	11:50	11:50	12:03	13min

REMARKS see attached sheet for soil profiles

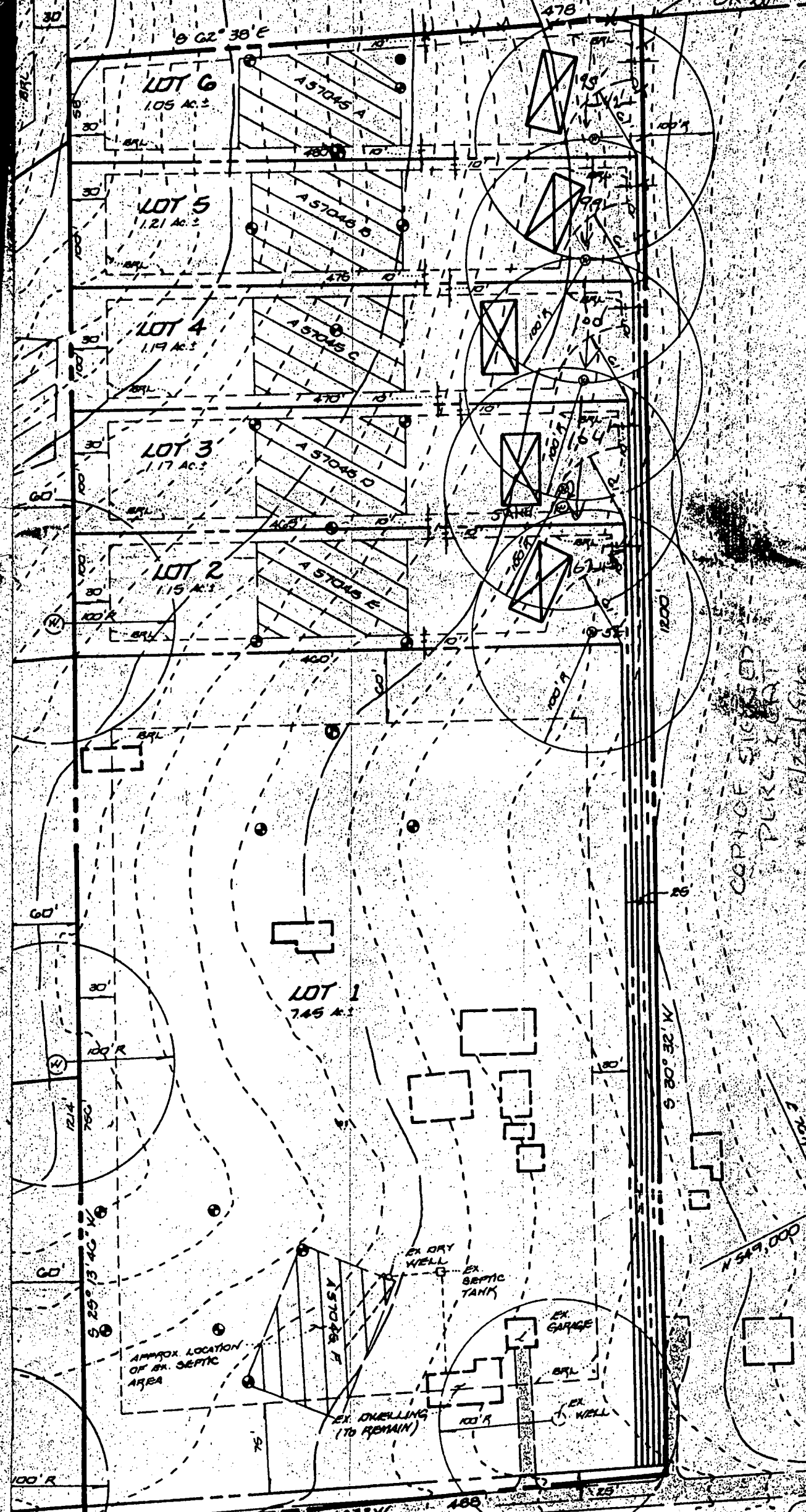
TYPE OF SOIL _____

TESTED BY Amy McMillen ALSO PRESENT Olan Ketterman

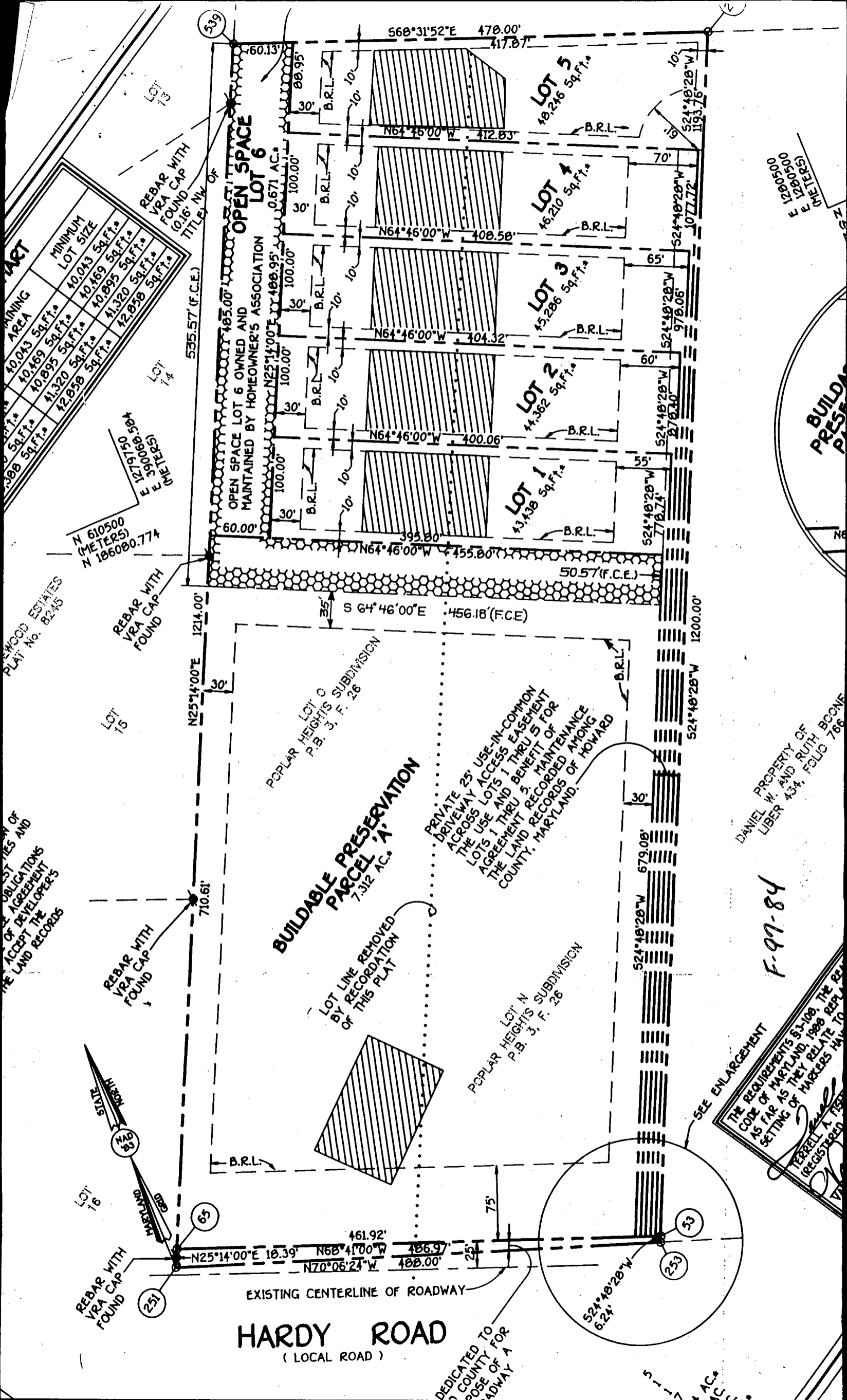
TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

USE MEASURED FROM FENCE ORIGIN



COPY OF SIGNED AND
PURCHASED
1/25/56



MINIMUM LOT SIZE	MINIMUM LOT SIZE
10,043 Sq.Ft.	10,043 Sq.Ft.
10,169 Sq.Ft.	10,169 Sq.Ft.
10,895 Sq.Ft.	10,895 Sq.Ft.
11,320 Sq.Ft.	10,895 Sq.Ft.
12,898 Sq.Ft.	11,320 Sq.Ft.
	12,858 Sq.Ft.

REBAR WITH VRA CAP FOUND

REBAR WITH VRA CAP FOUND

REBAR WITH VRA CAP FOUND

REBAR WITH VRA CAP FOUND

REBAR WITH VRA CAP FOUND

HARDY ROAD

(LOCAL ROAD)

BUILDABLE PARCEL 'A'

7.312 AC.

OPEN SPACE

LOT 6

0.671 AC.

SEE ENLARGEMENT

THE REQUIREMENTS 53-108, THE REVISIONS TO THE CODE OF MARYLAND, 1988 RELATIVE TO THE SETTING OF MARKERS HAVE BEEN INCORPORATED INTO THIS PLAN.

TERRELL A. FISHER (REGISTERED PROFESSIONAL SURVEYOR)

DANIEL W. AND RUTH BOGGS LIBER 434, FOLIO 766

F-97-84

1290500 METERS

BUILDABLE PARCEL

DEDICATED TO THE COUNTY FOR THE PURPOSE OF A ROADWAY

5.177 AC.

C1 7882

SEQUENCE NO. (MDE 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 COLS. 3-6 ON ALL CARDS)

FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

COUNTY NUMBER A-57045E

ST/CO USE ONLY, DATE Received

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

11 27 96

11 27 96

22 380 26

10-94-0989

OWNER SCHROEDER CHARLES last name first name TOWN MT AIRY SUBDIVISION RIOGELY STATION SECTION LOT 5

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: Brown Shale 0 36, Blue Rock 36 380 ✓

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 16 NO. OF POUNDS 1504 GALLONS OF WATER 96 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 37 ft.

CASING RECORD casing types insert appropriate code below: ST (STEEL), CO (CONCRETE), PL (PLASTIC), OT (OTHER)

MAIN CASING TYPE: SF (Nominal diameter top (main) casing (nearest inch)! 6, Total depth of main casing (nearest foot) 40)

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

SCREEN RECORD screen type or open hole: ST (STEEL), BR (BRASS BRONZE), PL (PLASTIC), HO (OPEN HOLE), OT (OTHER)

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED: Y (yes), N (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...

TYPE: MWD/MSD/MGD DRILLERS LIC. NO. 24

DRILLERS SIGNATURE: Joseph L. Moynere

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO.

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

Table with columns: DEPTH (nearest ft.), SLOT SIZE 1, 2, 3, DIAMETER OF SCREEN (NEAREST INCH). Row 1: H O 38 380

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

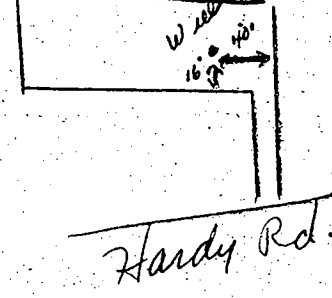
HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 4 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 50 ft. WHEN PUMPING 340 ft. TYPE OF PUMP USED (for test) S (submersible)

PUMP INSTALLED DRILLER WILL INSTALL PUMP 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. CAPACITY: GALLONS PER MINUTE (to nearest gallon) PUMP HORSE POWER PUMP COLUMN LENGTH (nearest ft.)

CASING HEIGHT (circle appropriate box and enter casing height): + above, - below LAND SURFACE (nearest foot) 2

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)



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.

Signature of Engineer: *[Signature]* DATE: 10/19/98

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.

Signature of Developer: _____ DATE: _____

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

U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE DATE: _____

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

HOWARD SOIL CONSERVATION DISTRICT DATE: _____

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 (33-1855).
- 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 THERE TO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DRES, 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. 30, 50) (SEC. 34), TEMPORARY SEEDING (SEC. 50, 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	1.00	ACRES
AREA DISTURBED	0.50	ACRES
AREA TO BE ROOFED OR PAVED	0.05	ACRES
AREA TO BE VEGETATIVELY STABILIZED	0.45	ACRES
TOTAL CUT	100	CU.YDS.
TOTAL FILL	100	CU.YDS.
- OFFSITE WASTE/BORROW AREA LOCATION: _____ 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.
- APPROVALS 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.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT.
- INSTALL SEDIMENT CONTROLS AS SHOWN ON PLAN (0 days)
- 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 (4 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 THROUGH 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 SOD.

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 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 0 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

REFER TO THE 1988 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 (4 LBS./1000 SQ.FT.) BEFORE SEEDING. LOOSEN 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 15 THROUGH FEBRUARY 28, PROJECT 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 SOD. 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

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 200 GALLONS PER ACRE (5 GAL./1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 0 FEET OR HIGHER USE 348 GALLONS PER ACRE (8 GAL./1000 SQ.FT.) FOR ANCHORING.

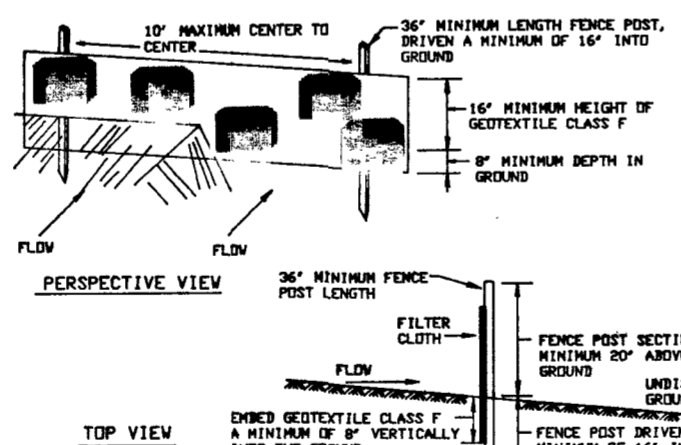
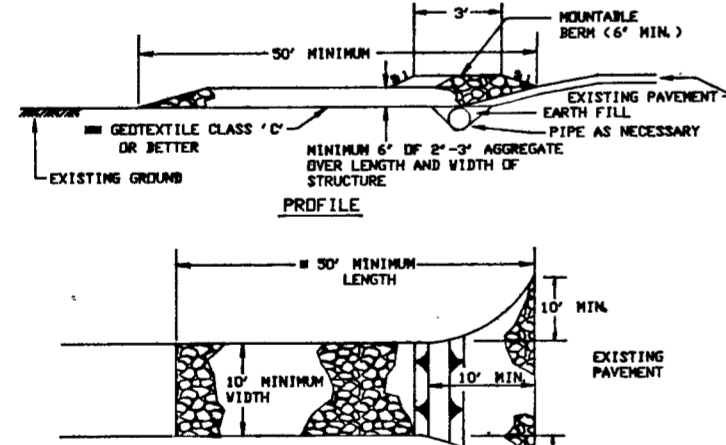
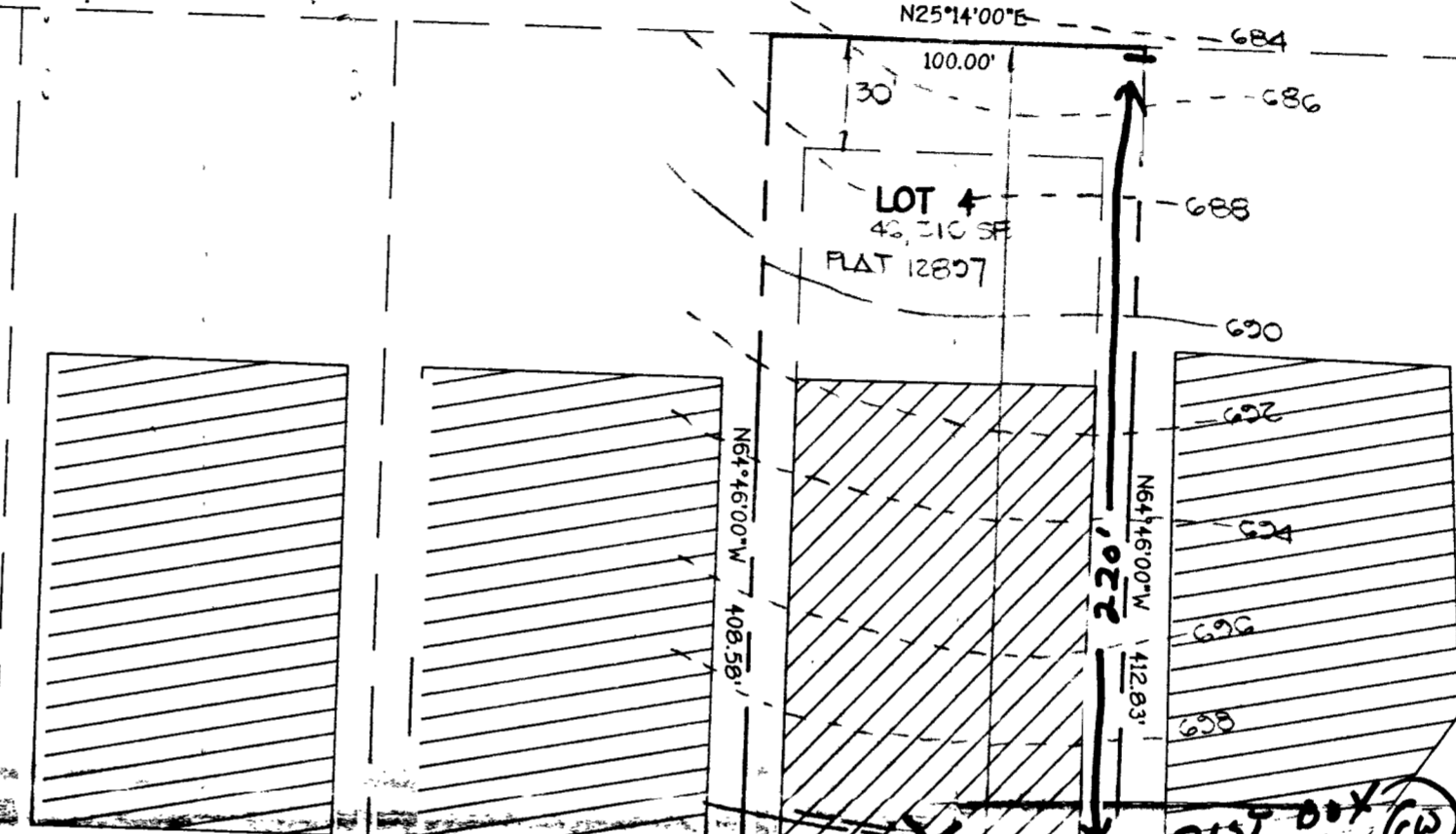
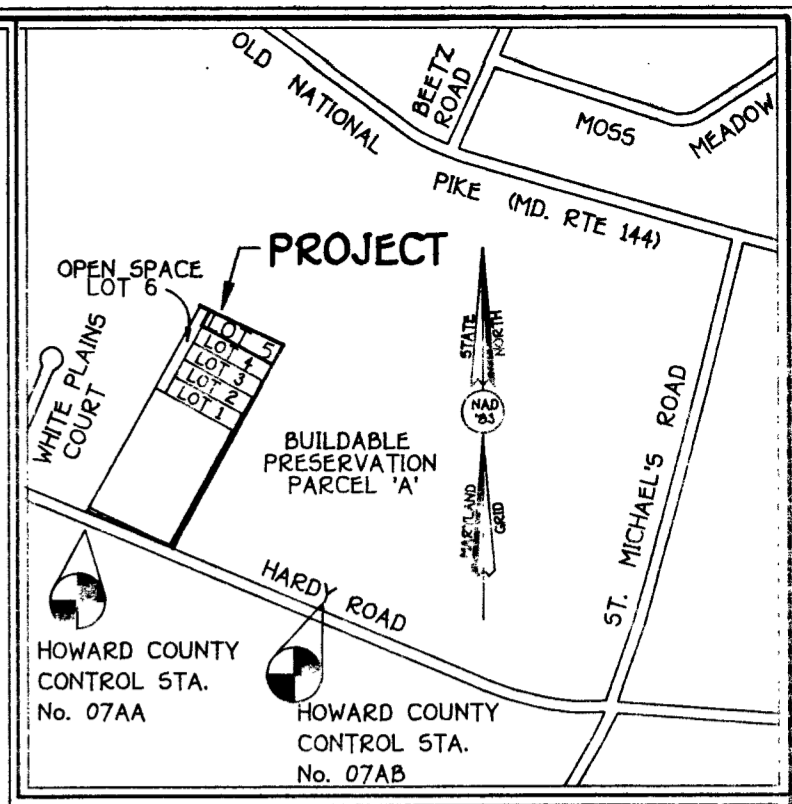
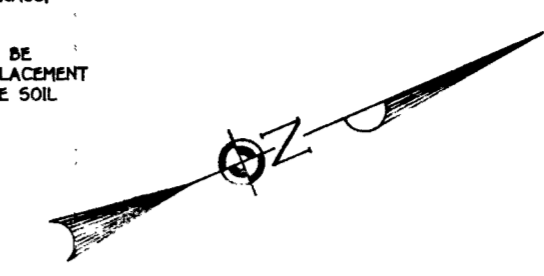
MAINTENANCE

INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
FOR PUBLIC PONDS SUBSTITUTE CHEMUNG CROWNWEED AT 15 LBS./ACRE AND KENTUCKY 31 TALL FESCUE AT 40 LBS./ACRE AS THE SEEDING REQUIREMENT. OPTIMUM SEEDING DATE FOR THIS MIXTURE IS MARCH 1 TO APRIL 30.

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 CHOKERS, 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.

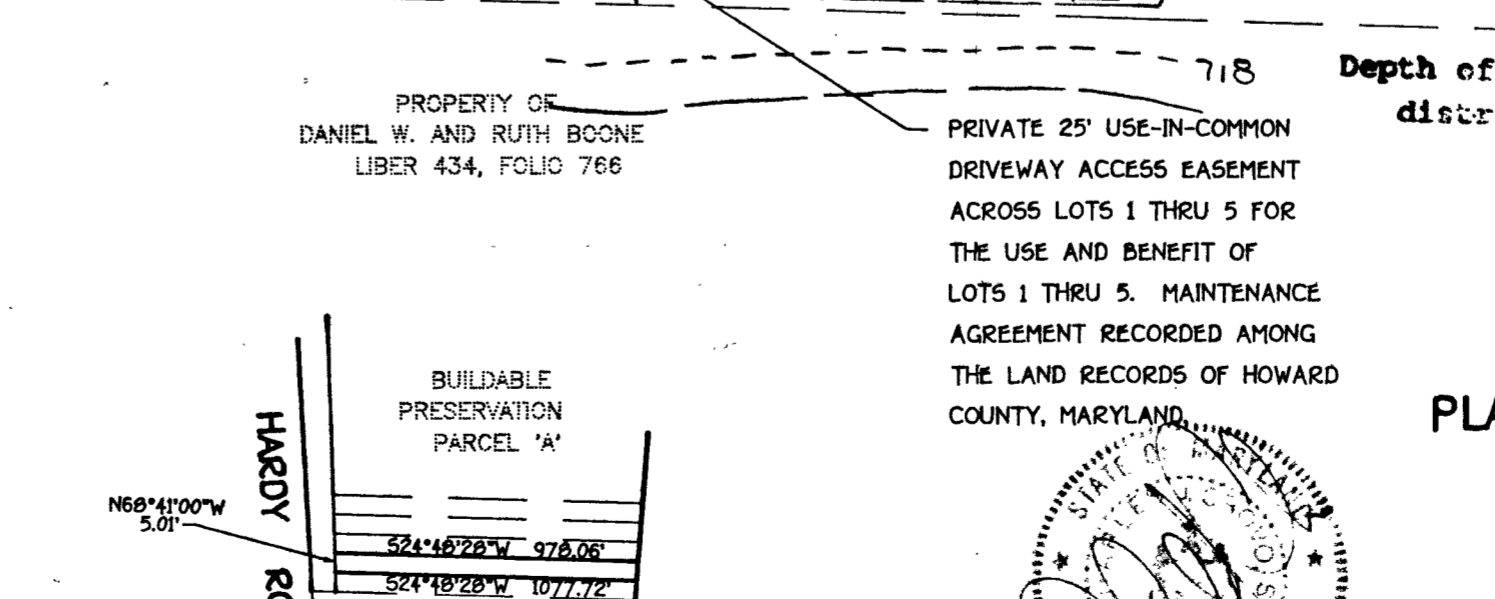
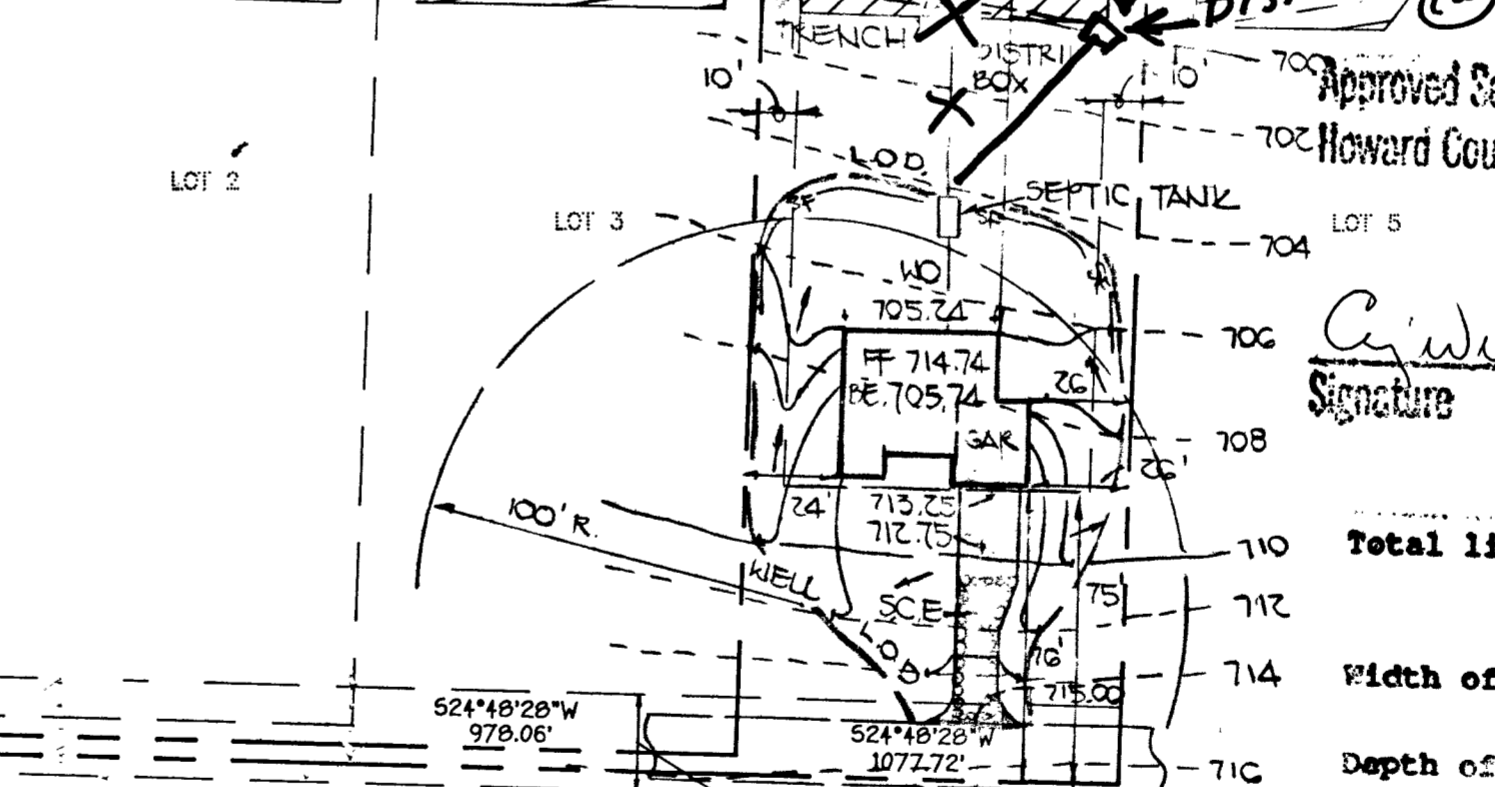
WHERE THE TOPSOIL IS EITHER HIGHLY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIMESTONE SHALL BE SPREAD AT THE RATE OF 4-8 TONS/ACRE (200-400 POUNDS PER 1,000 SQUARE FEET) PRIOR TO THE PLACEMENT OF TOPSOIL. LIME SHALL BE DISTRIBUTED UNIFORMLY OVER DESIGNATED AREAS AND WORKED INTO THE SOIL IN CONJUNCTION WITH TILLAGE OPERATIONS AS DESCRIBED IN THE FOLLOWING PROCEDURES.



- STANDARD SYMBOL**
- CONSTRUCTION SPECIFICATION**
- Length - minimum of 30' (40' for single residence lot).
 - Width - 10' minimum, should be flared at the existing road to provide a turning radius.
 - Geotextile fabric (filter cloth) shall be placed over the existing ground prior to placing stone. The plan approval authority may not require single family residences to use geotextile.
 - Stone - crushed aggregate (2" to 3") or reclaimed 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 mountable berm with 3:1 slopes and a minimum of 6" 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, including leaving the site must travel over the entire length of the stabilized construction entrance.
- STABILIZED CONSTRUCTION ENTRANCE - 2**

- CONSTRUCTION SPECIFICATIONS**
- 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 1/2" 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	30 lbs/in (min.)	Test: HSMT 509
Tensile Modulus	80 lbs/in (min.)	Test: HSMT 509
Flow Rate	0.3 gal/4"/minute (max.)	Test: HSMT 302
Filtering Efficiency	75% (min.)	Test: HSMT 302
 - Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent silt bypass.
 - Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.



- GENERAL NOTES**
- SEPTIC EASEMENT SUBJECT TO HOWARD COUNTY HEALTH DEPARTMENT No. _____
 - PROPOSED 1500 GALLON SEPTIC TANK. 714.74
 - FIRST FLOOR ELEVATION: 705.74
 - INVERT OF SEPTIC SYSTEM AT HOUSE: 703.36
 - INVERT IN AT SEPTIC TANK: 702.36
 - INVERT OUT AT SEPTIC TANK: 702.36
 - PROPOSED GRADE OVER SEPTIC TANK: 705.00
 - INVERT AT DISTRIBUTION BOX: 700.00
 - EXISTING GROUND OVER DISTRIBUTION BOX: 690.50
 - 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 NO BASEMENT SERVICE TO SEPTIC SYSTEM.

Approved Septic System Plan
Howard County Health Department
* 3 1/2" INLET PROPOSED / ACCEPTED
3" INLET PREFERRED, IF POSSIBLE AT TIME OF INSTALLATION.

Signature: *[Signature]* DATE: 11/3/98

Total linear feet of trench required **320** feet
Width of trench(es) **3** feet
Depth of trench(es) **5** feet
Depth of stone required below distribution pipe **2** feet

4 BR

PLAN TO ACCOMPANY APPLICATION FOR BUILDING PERMIT RIDGELY STATION LOT 4

B 1 7494 SEQUENCE NO. (MDE USE ONLY)
 (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
H0-94-0989
70 fill in this form completely 79

OWNER INFORMATION

Date Received (APA) 110496

SCHROYER CHARLES
15 Last Name Owner First Name 34

1025 EMMAUS RD
36 Street or RFD 55

WOODB, ME MD21797
57 town 70 State 72 Zip 76

B 3 LOCATION OF WELL

HOWARD
8 COUNTY 21

RIDGELEY STATION
23 SUBDIVISION 42

SECTION LOT 5
44 46 48 50

MAAIRY
52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) 5 MI
73 78 77 78

DRILLER INFORMATION CIRCLE: MSD/MGD/MWD

Joseph L. Wayne 24
Driller's Name 77 License No. 80

Joseph L. Wayne Well Drilling
78 Name

5512 Ridge Rd. Mt. Airy, Md. 21771
Address

Joseph L. Wayne 11/4/96
Signature Date

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Hardy Road
11 NEAR WHAT ROAD 30

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

DISTANCE FROM ROAD 6010 FT
34 37 ENTER FT OR MI 38 39

TAX MAP: 7 BLK: PARCEL 9

B 2 WELL INFORMATION

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

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

HOME (SINGLE OR DOUBLE HOUSEHOLD UNIT ONLY)

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, STATE AND FEDERAL GOV. OTHER (REQUIRES APPROPRIATION PERMIT)

PUBLIC OR PRIVATE WATER COMPANY (REQUIRES APPROPRIATION PERMIT AND STATE HEALTH DEPARTMENT APPROVAL)

TEST, OBSERVATION, MONITORING (MAY REQUIRE APPROPRIATION PERMIT)

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

HOWARD A-57045-E
COUNTY NAME COUNTY NO.

STATE SIGNATURE DATE ISSUED 110896 EXP. DATE 11/8/97
43 48 CO SIGNATURE 41

NORTH GRID 549000 EAST GRID 767000
50 55 57 63

APPROXIMATE DEPTH OF WELL 260 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 INCH
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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- WELL
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

E 7687
 N 5469
000 000

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

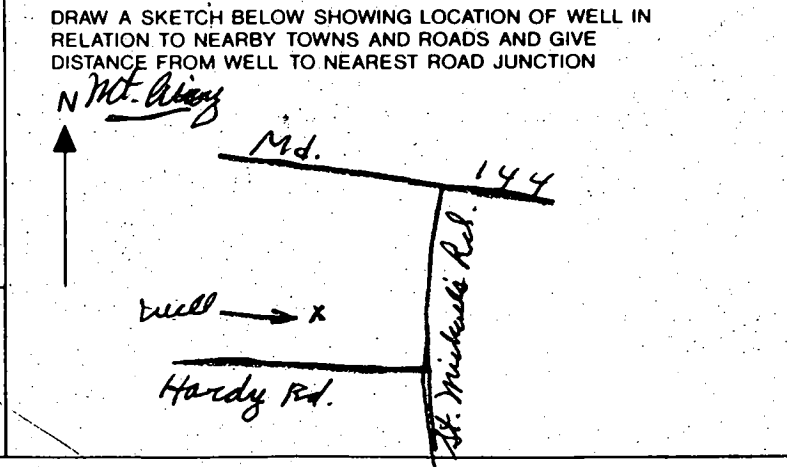
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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

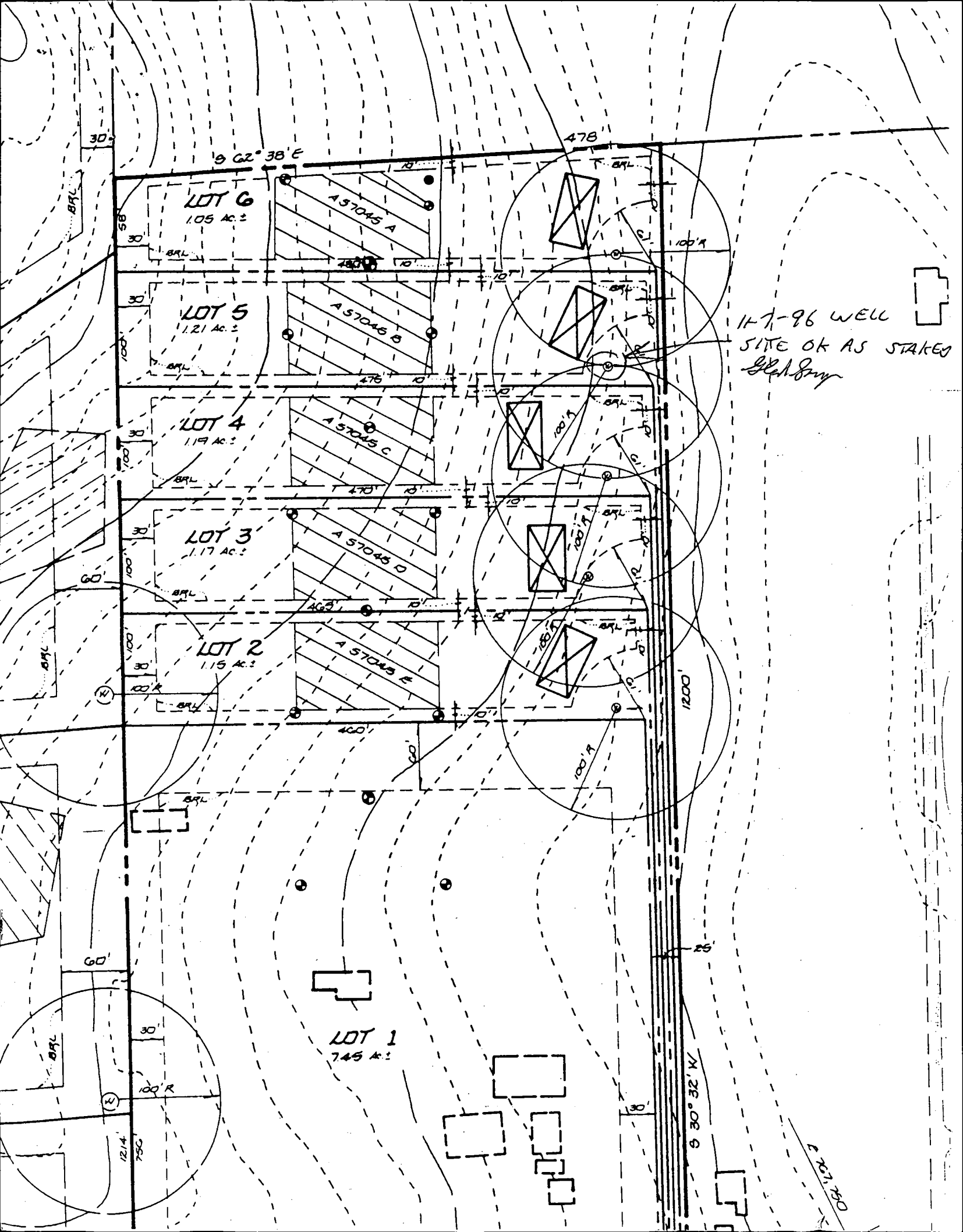
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE)



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

APPROX. PERMIT NUMBER G A P
54 63

FORCE GS WRITE INITIALS IN BOX PERMIT No. H0-94-0989
67 68 70 71 72 73 74 75 76 77 78 79



LOT 6
1.05 AC.±

LOT 5
1.21 AC.±

LOT 4
1.19 AC.±

LOT 3
1.17 AC.±

LOT 2
1.15 AC.±

LOT 1
7.45 AC.±

11-7-96 WELL
SITE OK AS STAKED
Gled. Sny

30'

478

$9\ 62^{\circ}\ 38'\ E$

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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 WTC TA P+H

Telephone _____

License Number _____
Certified Well Pump Installer _____ Well Driller _____ Registered Plumber

Name of Property Owner Vance Meason Telephone _____
Subdivision Ridge Station Lot # 4 Well Tag # HD-94-0984
Site Address 17245 Hardy Road

Pump
1. Type
a. Deep well jet _____
b. Shallow well jet _____
c. Submersible
2. Make _____
3. Model # _____
4. Capacity 5 GPM GPM
5. Pump exceeds well capacity Yes _____ No
6. If Yes, is low pressure cutoff switch installed? Yes _____ No _____
7. What methods are used to protect the pump and electrical wiring from vibrations? Torque arrestors _____ Cable guards Other _____

Motor
1. Horsepower 3/4
2. RPM _____
3. Voltage _____
a. 110 _____
b. 220

Pitless Adapter
1. Make _____
2. Model # _____
3. Depth _____

Tank
1. Capacity _____
2. Pressure relief valve? _____

Piping
1. Type Plastic
2. Size _____
3. NSF and/or BOCA Code approved _____
4. Depth of supply line _____

Well data
1. Depth 380 ft.
2. Yield 5 GPM
3. Static water level 50 ft.
4. Will water supply be disinfected by installer? no

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: [Signature]

Date: 3/27/99

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



HOWARD COUNTY HEALTH DEPARTMENT

Mary Sue Baker, MBA, Acting County Health Officer

April 12, 1999

Stratford Builders
P.O. Box 126
Woodbine, Maryland 21797
Attn: Mr. Vance Merson

RE: Ridgely Station, Lot #4
17254 Hardy Road
Well Permit #HO-94-0984

Dear Sir:

This is to advise you that the septic system for the above referenced property was installed, inspected and approved on March 26, 1999.

The water sample recently submitted for testing was free of coliform and fecal coliform bacteria and is bacteriologically safe for drinking. The water sample was found to be in compliance with COMAR water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-94-0984. No guarantee can be given for health protection beyond this date of issue. Based upon satisfactory investigation and evaluation by the Howard County Health Department, the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.09.

This certificate may become final upon completion of the final bacteriological test which is to be taken by the county health department within six months. Please contact Ms. Vicki Fellas at (410) 313-2644 to schedule a final water sample appointment.

Dates of Water Samples: April 6, 1999
Date of Well Completion: November 22, 1996

Approving Authority

A handwritten signature in black ink, appearing to read "Donna K. Soe".

Donna K. Soe, R.S.

Water and Sewerage Program

DKS

cc: Building Inspector's office
File