

6/27/05 - Late AM

PUB. SEWER STATUS VERIFIED BY _____

ISSUE DATE: 6/8/05

P 522523

APPROVAL DATE: _____

A 513618-HH

PERMIT

ENDORSED

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

05-436923

Hatfield's Equipment IS PERMITTED TO INSTALL ALTER

ADDRESS: 13785 Burntwoods Road PHONE NUMBER: 301-854-6172

SUBDIVISION: Buckskin Ridge LOT NUMBER: 32

ADDRESS: 4284 Buckskin Wood Drive PROPERTY OWNER: _____

SEPTIC TANK CAPACITY (GALLONS): _____

PUMP CHAMBER CAPACITY (GALLONS): _____

NUMBER OF BEDROOMS: _____

SQUARE FEET PER BEDROOM: _____

LINEAR FEET OF TRENCH REQUIRED: _____

TRENCHES:	Trench to be _____ feet wide. Inlet _____ feet below original grade. Bottom maximum depth _____ feet below original grade. Effective area begins at _____ feet below original grade. _____ feet of stone below distribution pipe.
LOCATION:	_____
PURPOSE:	Existing septic system has failed. Call for inspection when ground is opened so sanitarian can recommend repair. <i>SEPTIC TANK TO BE MOVED</i>

PLANS APPROVED: _____ DATE: _____

- NOTE: PERMIT VOID AFTER 2 YEARS
- NOTE: CONTRACTOR RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION INSPECTION FOR ALL INSTALLATIONS
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE 100 FEET FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

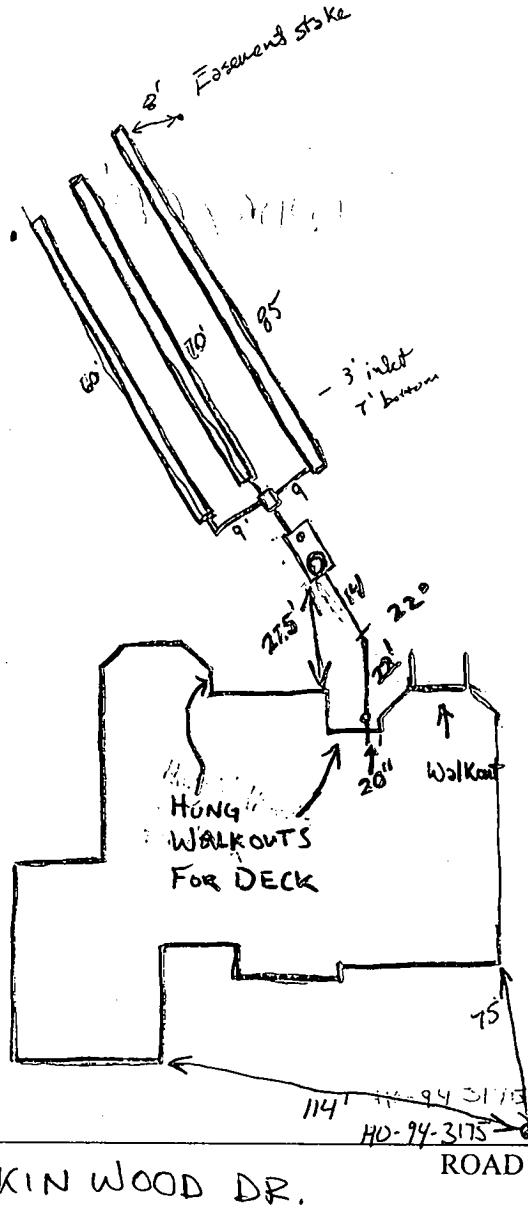
NEITHER THE HOWARD COUNTY COUNCIL OR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT
CALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM

BUILDING PERMIT SIGNED AND RETURNED

6/20/05 BOB 184734-DECK

AS13618-HH

NOT TO SCALE



New Trench

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	7'
NUMBER OF TRENCHES		3'
TOTAL LENGTH		85 + 130 = 215
ABSORPTION AREA		645 + Side
DISTRIBUTION BOX LEVEL		Speed Levels
DISTRIBUTION BOX BAFFLE		✓
DISTRIBUTION BOX PORT		No

SEPTIC TANK DATA Existing	
SEPTIC TANK 1 LEVEL	✓
CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1-2'
BAFFLES	✓
BAFFLE FILTER	N/A
MANHOLE LOC	Inlet
6" PORT LOC	Outlet
WATERTIGHT TEST	N/A

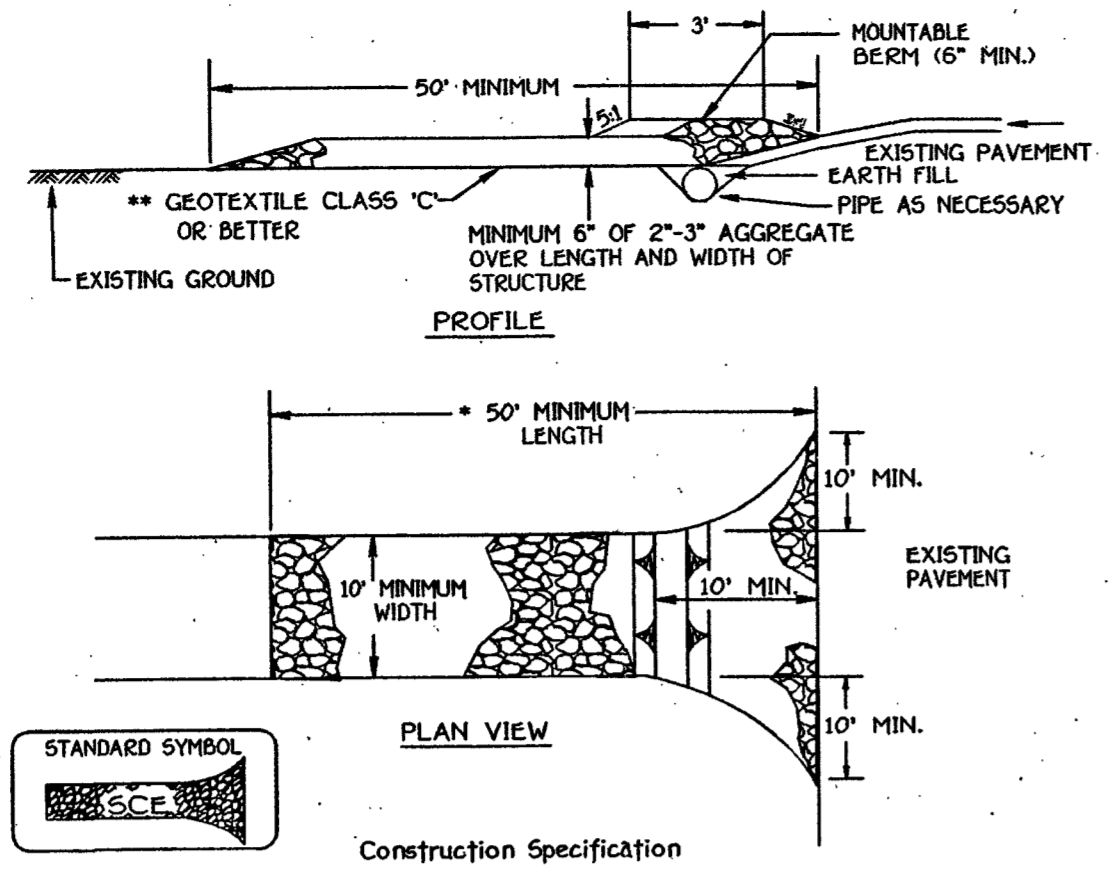
SEPTIC TANK 2 LEVEL	
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

PRE-CONSTRUCTION 6/14/05 O.K. to move tank farther from house so that it will be 5+' from proposed deck and 10+' from INSTALLATION proposed patio. Met with Jeff (Hatfields) and builder in field to mark new tank location. Part of trenches (~50' total will be lost) will be destroyed. Will have to install new trench of approximately 60' beneath existing trenches. Easement should still be > 10,000 even with area lost because of patio setback. (BB) 6/27/05 Tank moved / new trench installed on contour the width of the easement on contour. New system ties into 2 existing trenches losing ~10' from each trench. > 10,000 sq. ft of area. OK to cover. (GAC)

FINAL INSPECTOR J. Creighton DATE OF APPROVAL 6/27/05

SEDIMENT CONTROL NOTES

- A minimum of 48 hours notice must be given to the HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSING AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (303-4950).
- ALL VEGETATION 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 RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN 8-7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DRENCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1. IN 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON PROTECT SITE.
- ALL SEDIMENT TRAPS/BASINS MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 22, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, FOR PERMANENT SEEDING (SEC. 50, 500 GSC. 34), TEMPORARY SEEDING (SEC. 50, AND HOLDING (SEC. 50). 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 PERMSSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS
 - TOTAL AREA OF SITE: 1.000 ACRES
 - AREA TO BE GRADED OR PAVED: 0.800 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 0.200 ACRES
 - TOTAL CUT: 500 CU.YDS.
 - TOTAL FILL: 300 CU.YDS.
 - OFFSITE WASTE/DORROM AREA LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICE MUST BE DISTRIBUTED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE COMPLETED 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 OBTAINED PRIOR TO COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER CONSTRUCTION, DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TECHNIQUES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE SIZES OR THAT WHICH SHALL BE BACK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHEREAS IS SPECIFIC.



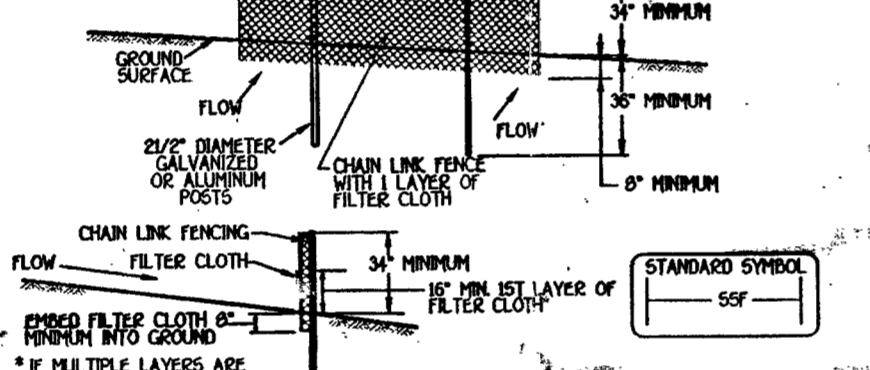
Construction Specification

- Length - minimum of 50' (10' for single residence lot).
- Width - 10' minimum, should be tapered 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 stone. Heavy residences to use geotextile.
- Stone - crushed aggregate (1/2" to 3/4") 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 beam with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has no drains 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

- TEMPORARY SEEDING NOTES**
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION**
- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS**
- APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER @ 1/4 LBS./1000 SQ.FT.
- SEEDING**
- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 17 BURNAL PER ACRE OF ANNUAL, 1/2 LBS./ACRE OF WEEPING LONGGRASS (17 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.
- MULCHING**
- APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF 3/4" GALVANIZED ASPHALT ON SLOPES 6 FEET OR HIGHER. USE 340 GALLONS PER ACRE @ 1/4" GALVANIZED ASPHALT FOR ANCHORING. REFER TO THE 1980 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.



Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Authority Chain Link Fencing. The specification for 4" chain link shall be used, substituting 42" fabric and 6" length posts.
- Chain link fence shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section.
- Filter cloth shall be embedded a minimum of 6" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and taped.
- Maintenance shall be performed as needed and all buildings removed when "buds" develop in the spring. Option C2 - Use SOIL OPTION C2 - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS PER ACRE OF WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEED.

Design Criteria		
Slope	Slope Length (Maximum)	Silt Fence Length (Minimum)
0 - 1%	Unlimited	Unlimited
1 - 2%	100 feet	100 feet
2 - 3%	50 feet	50 feet
3 - 5%	25 feet	25 feet

SUPER SILT FENCE

NOT TO SCALE

- MAINTENANCE**
- RESPECT ALL GRADED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDING.
- * FOR PUBLIC PONDS SUBSTITUTE CHAINING CROWNWITH 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 LEAN SANDY LOAM CLAY LOAM SILTY 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 SUBSOLS AND SHALL CONTAIN LESS THAN 1% BY VOLUME OF CORKS, 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.

NOTE

WHERE THE TOPSOIL IS EITHER HEAVILY ACIDIC OR COMPOSED OF HEAVY CLAYS, GROUND LIME/STON SHALL BE SPREAD AT THE RATE OF 4-6 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.

SEQUENCE OF CONSTRUCTION

- OBTAIN GRADING PERMIT. 1 DAY
- INSTALL SEDIMENT AND EROSION CONTROL DEVICES AS SHOWN ON PLAN. 1 DAY
- CLEAR AND GRUB TO LIMITS OF DISTURBANCE AND MASS GRADE TO SUB-FINISH. 1 DAY
- INSTALL TEMPORARY SEEDING. 1 DAY
- CONSTRUCT BUILDINGS. 2 MONTHS
- FINE GRADE SITE AND INSTALL PERMANENT SEEDING AND LANDSCAPE. 1 DAY
- REMOVE SEDIMENT CONTROL DEVICES AS UPLAND AREAS ARE STABILIZED AND PERMSSION IS GRANTED BY E/S CONTROL INSPECTOR. 2 DAYS

TEMPORARY SEEDING NOTES

- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RESTORED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION**
- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS**
- APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER @ 1/4 LBS./1000 SQ.FT.
- SEEDING**
- FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 17 BURNAL PER ACRE OF ANNUAL, 1/2 LBS./ACRE OF WEEPING LONGGRASS (17 LBS./1000 SQ.FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOIL.
- MULCHING**
- APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS./1000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF 3/4" GALVANIZED ASPHALT ON SLOPES 6 FEET OR HIGHER. USE 340 GALLONS PER ACRE @ 1/4" GALVANIZED ASPHALT FOR ANCHORING. REFER TO THE 1980 MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

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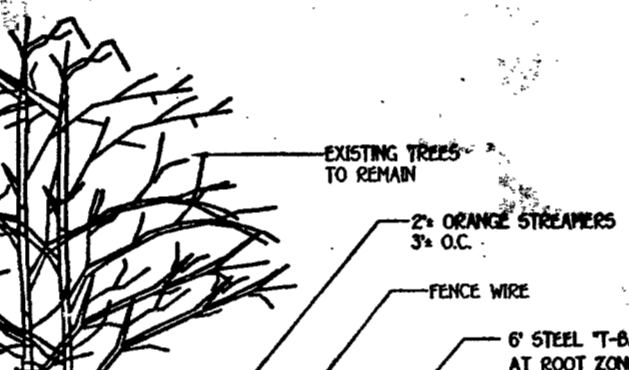
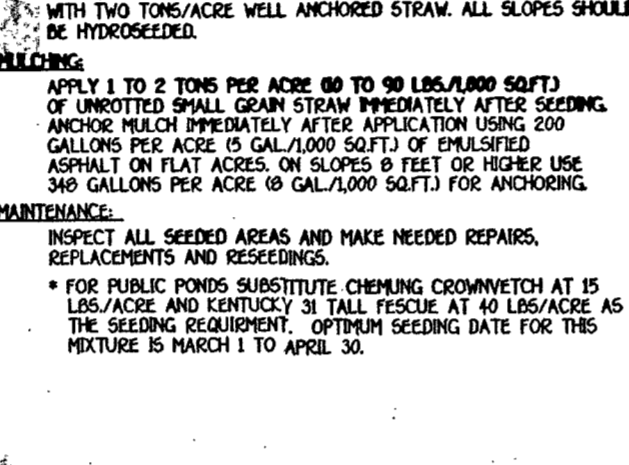
PERMANENT SEEDING NOTES

- ALL DISTURBED AREAS SHALL BE STABILIZED AS FOLLOWS:
- SEEDING PREPARATION**
- LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS**
- APPLY TWO TONS PER ACRE DOLOMITE LIMESTONE @ 2 LBS./1000 SQ.FT. AND 600 LBS. PER ACRE 0-20-20 FERTILIZER @ 1/4 LBS./1000 SQ.FT. BEFORE SEEDING HARROW OR DISC. APPLY THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA/NITROGEN FERTILIZER @ 1/4 LBS./1000 SQ.FT. AND 500 LBS. PER ACRE 0-15-15/1000 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.) OF KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE (20 LBS./1000 SQ.FT.) OF WEEPING LONGGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 29, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION C2 - SEED WITH 100 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS PER ACRE OF WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEED.
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SILT FENCE & TREE PROTECTION

NOT TO SCALE

- Silt fence to be heeled into the soil.
- Wire, snow fence, etc. for tree protection only.
- Boundaries of Retention Area will be established as part of the forest conservation plan review process.
- Boundaries of Retention Area should be staked and flagged prior to installing device.
- Avoid root damage when placing anchor posts.
- Device should be properly maintained throughout construction.
- Protection signs are also required see Figure C-4.
- Locate fence outside the Critical Root Zone.



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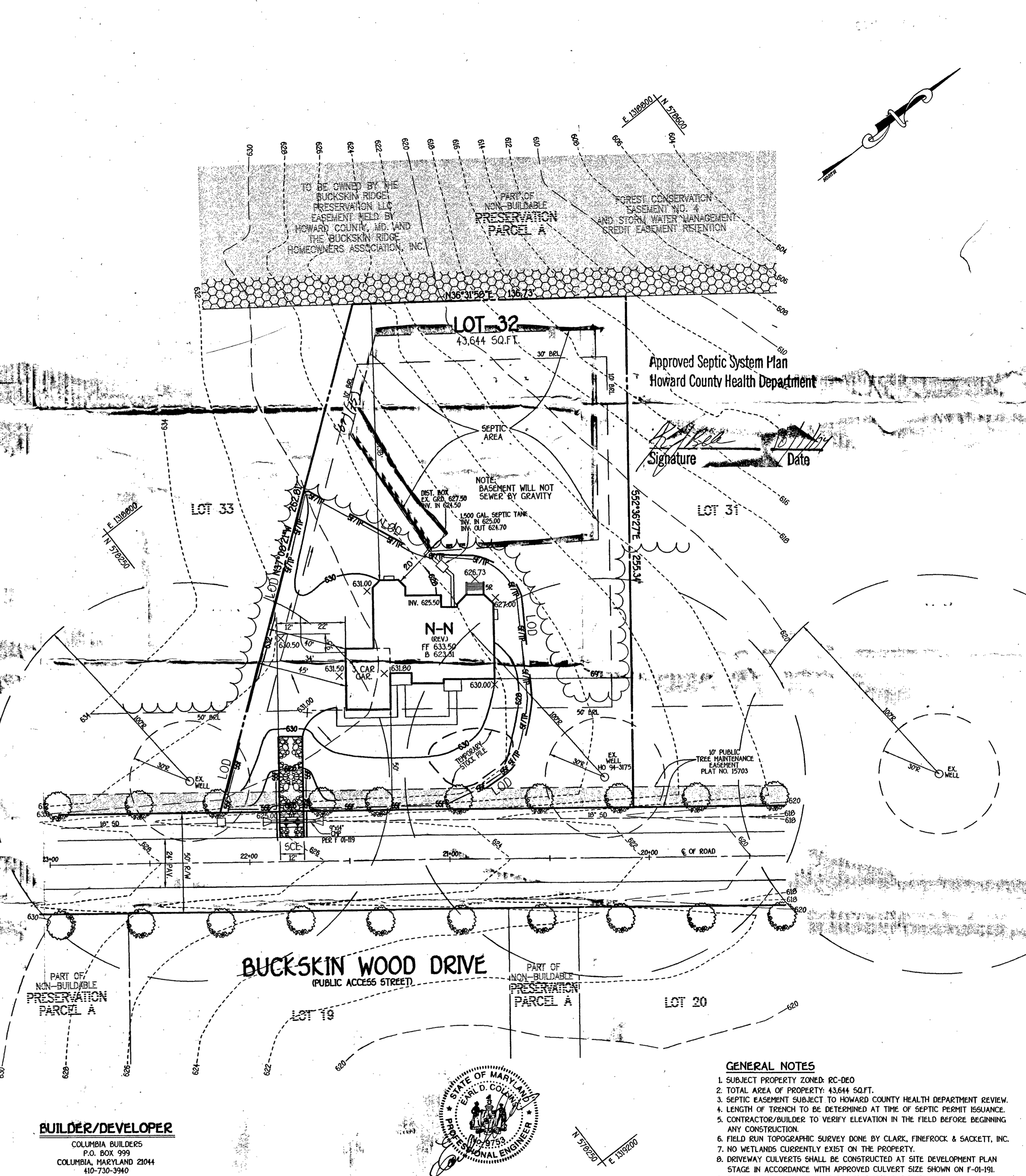
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BUILDER/DEVELOPER
COLUMBIA BUILDERS
P.O. BOX 999
COLUMBIA, MARYLAND 21044
410-730-3940

DEVELOPER'S CERTIFICATE
I HEREBY 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 COUNTY CONSERVATION DISTRICT.

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 COUNTY CONSERVATION DISTRICT.

SITE DEVELOPMENT, SEDIMENT/EROSION CONTROL PLAN, NOTES & DETAILS
BUCKSKIN RIDGE
LOT 32
ZONED RR-DEO
5TH ELECTION DISTRICT
SCALE: 1"=30'

PLAT NO. 15703
HOWARD COUNTY, MARYLAND
DATE: AUGUST, 2004

N36°31'58"E 136.73'

LOT 32

43,644 SQ.FT.

Approved Septic System
Howard County Health

[Signature]
Signature

NOTE:
BASEMENT WILL NOT
SEWER BY GRAVITY

DIST. BOX
EX. CRD. 627.50
INV. IN 624.50

1,500 GAL. SEPTIC TANK
INV. IN 625.00
INV. OUT 624.70

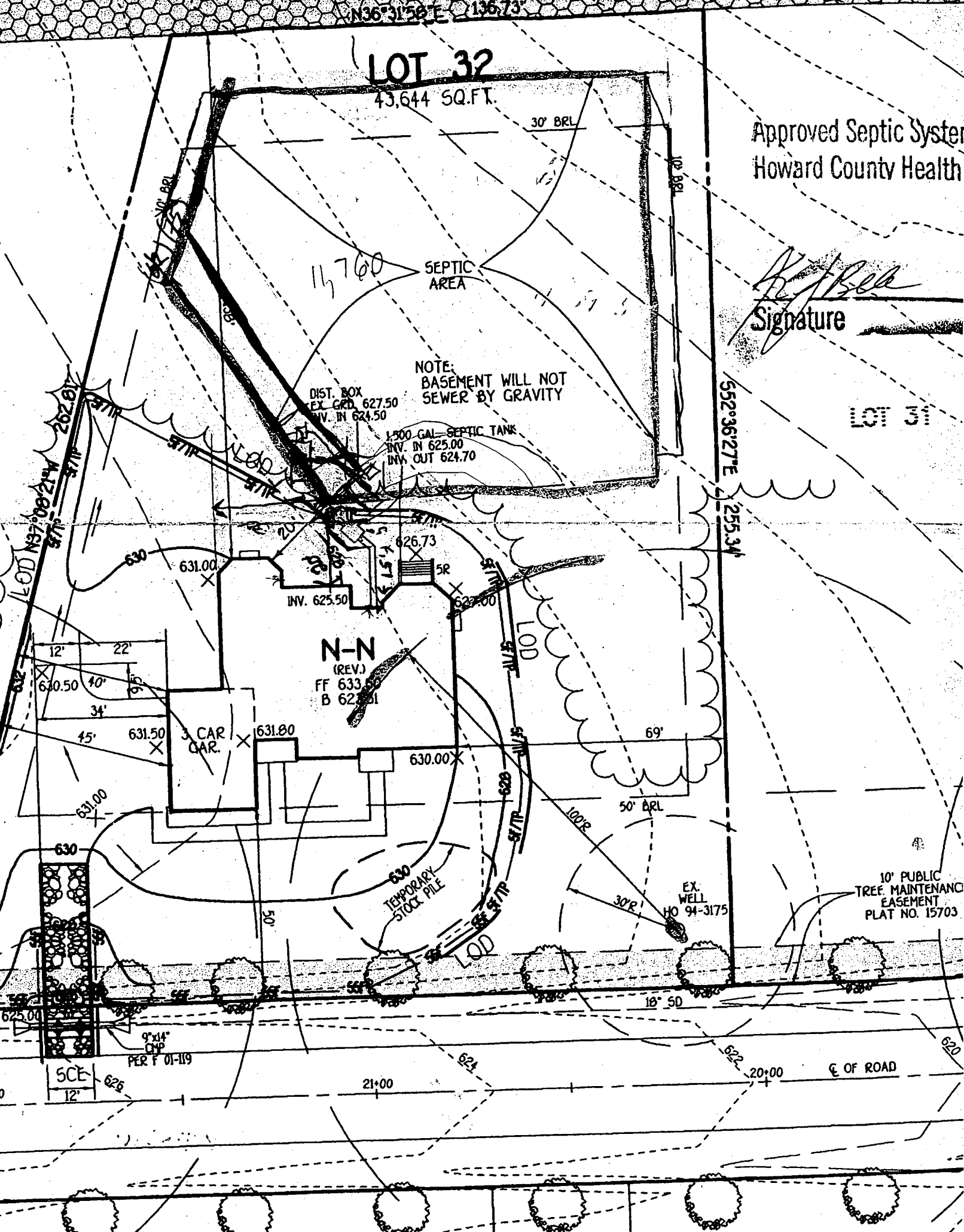
N-N
(REV.)
FF 633.50
B 627.50

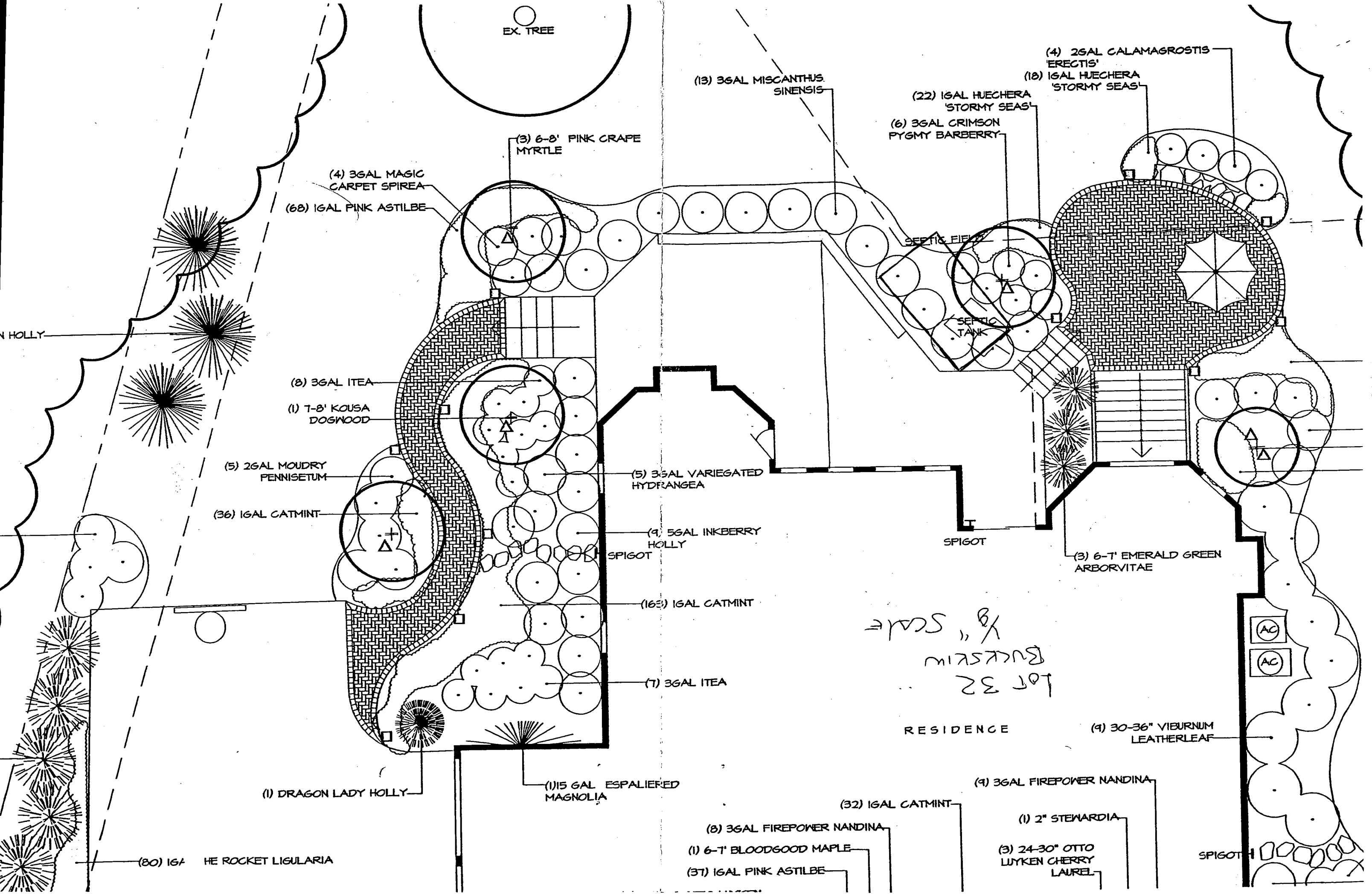
3 CAR GAR.

630
TEMPORARY
STOCK PILE

EX. WELL
HO 94-3175

10' PUBLIC
TREE MAINTENANCE
EASEMENT
PLAT NO. 15703





EX. TREE

(13) 3 GAL MISCANTHUS SINENSIS

(4) 2 GAL CALAMAGROSTIS 'ERECTIS'
(18) 1 GAL HUECHERA 'STORMY SEAS'

(22) 1 GAL HUECHERA 'STORMY SEAS'
(6) 3 GAL CRIMSON PYGMY BARBERRY

(3) 6-8' PINK CRAPE MYRTLE

(4) 3 GAL MAGIC CARPET SPIREA
(68) 1 GAL PINK ASTILBE

SEPTIC FIELD

SEPTIC TANK

HOLLY

(8) 3 GAL ITEA
(1) 7-8' KOUSA DOGWOOD

(5) 2 GAL MOUDRY PENNISETUM

(36) 1 GAL CATMINT

(5) 3 GAL VARIEGATED HYDRANGEA

(9) 5 GAL INKBERRY HOLLY
SPIGOT

SPIGOT

(3) 6-7' EMERALD GREEN ARBORVITAE

(162) 1 GAL CATMINT

LOT 32
BUCKSKIN
1/8" SCALE

(7) 3 GAL ITEA

RESIDENCE

(9) 30-36" VIBURNUM LEATHERLEAF

(1) DRAGON LADY HOLLY

(1) 15 GAL ESPALIERED MAGNOLIA

(9) 3 GAL FIREPOWER NANDINA

(8) 3 GAL FIREPOWER NANDINA

(1) 2" STEWARDIA

(1) 6-7' BLOODGOOD MAPLE

(3) 24-30" OTTO LUYKEN CHERRY LAUREL

(37) 1 GAL PINK ASTILBE

(32) 1 GAL CATMINT

SPIGOT

(80) 1 GAL THE ROCKET LIGULARIA

LAYOUT 1/18/05 INSP 4 _____
INSP 2 _____ INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 12/17/04

APPROVAL DATE: 1/19/05

PERMIT INDEXED

P 521626

A 513618-HH

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

Hatfields Equipment IS PERMITTED TO INSTALL ALTER

ADDRESS: 13785 Burntwoods Road, Glenelg PHONE NUMBER: 410-531-6773

SUBDIVISION: Buckskin Ridge LOT NUMBER: 32

ADDRESS: 4284 Buckskin Wood Drive PROPERTY OWNER: Columbia Builders, 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: 200

LINEAR FEET OF TRENCH REQUIRED: 135 HOUSE SERVED BY PUBLIC WATER

TRENCHES:	Trench to be 3.0 feet wide. Inlet 4.0 feet below original grade. Bottom maximum depth 8.0 feet below original grade. Effective area begins at 5.0 feet below original grade. 3.0 feet of stone below distribution pipe.
LOCATION:	Place the distribution box at the highest elevation in the approved SDA.
NOTES:	

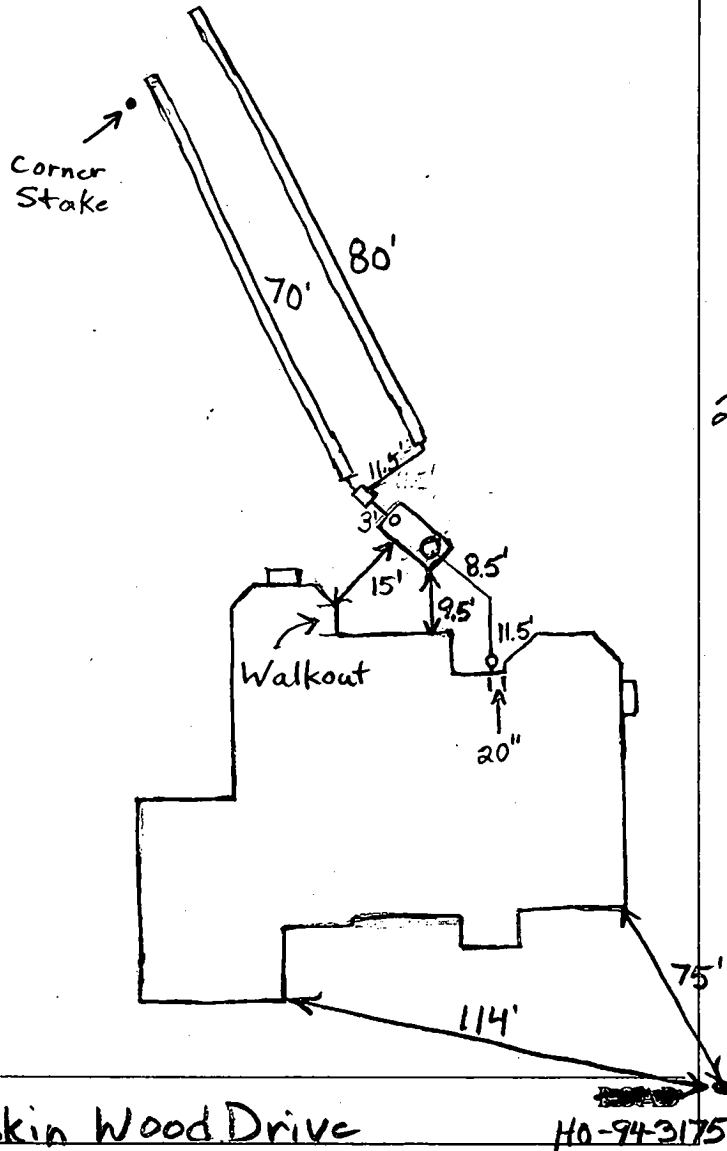
PLANS APPROVED: Kevin J. Bell Reviewed by: _____ DATE: 10/1/04

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
ALL 410-313-2640 FOR INSPECTION OF SEPTIC SYSTEM**

AS13618-HH

NOT TO SCALE



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		150'
ABSORPTION AREA		450' + Sidewall
DISTRIBUTION BOX LEVEL		Levelers
DISTRIBUTION BOX BAFFLE		Yes
DISTRIBUTION BOX PORT		No

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	✓
2-Comp CAPACITY	1500 GAL
SEAM LOC	Top
TANK LID DEPTH	1 1/2' - 2 1/2'
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	Front
6" PORT LOC	Rear
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____

Buckskin Wood Drive

HO-94-3175

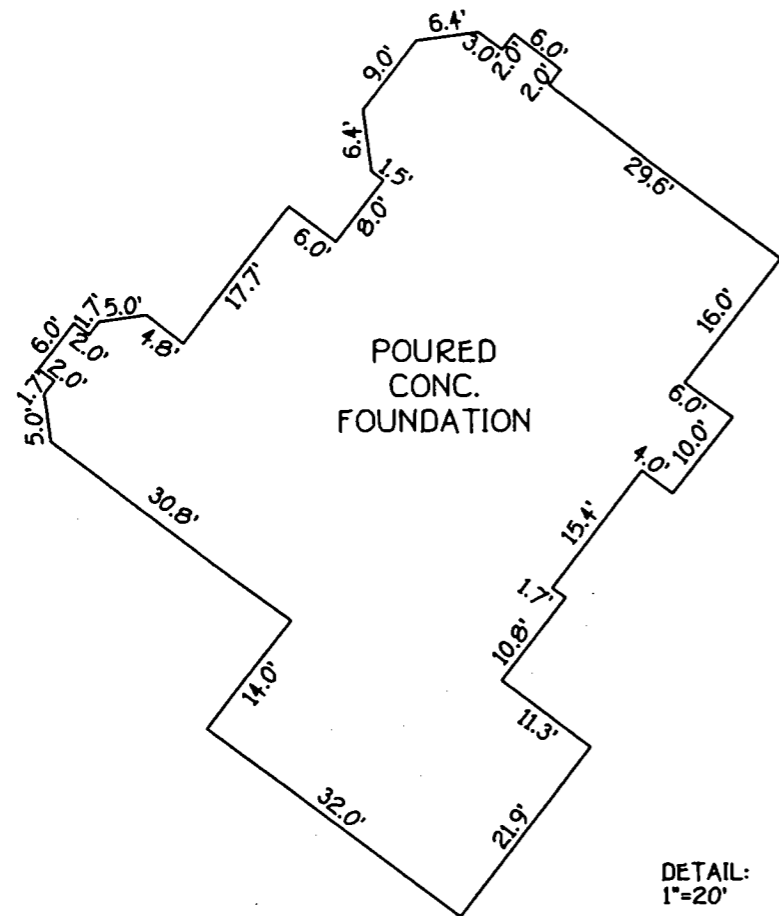
PRE-CONSTRUCTION 1/18-19/05 To install system as per plan. Septic tanks will probably interfere with any future deck installation.
 INSTALLATION Builder aware of problem - took measurements to see what kind of deck might fit in area. Builder didn't say anything about moving septic tank. Homebuyers have been on site. Tank already set when I arrived for layout. Hatfields extended trenches to use up extra stone. System finished. O.K. to cover everything. (BB)

FINAL INSPECTOR B. Baker

DATE OF APPROVAL 1/19/05

GENERAL NOTES:

- 1) THIS LOCATION DRAWING 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 REFINANCING OF THE PROPERTY SHOWN HEREON. UNLESS INDICATED AS BEING A BOUNDARY SURVEY, THIS LOCATION DRAWING 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 LOCATION DRAWING DOES NOT PROVIDE FOR ACCURATE IDENTIFICATION OF PROPERTY LINES, BUT SUCH IDENTIFICATION MAY NOT BE REQUIRED FOR THE TRANSFER OF TITLE OR SECURING FINANCING FOR 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. 2400440021B EFFECTIVE DEC. 4, 1985.
- 3) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1' (±)
- 4) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 5) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-94-3175 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



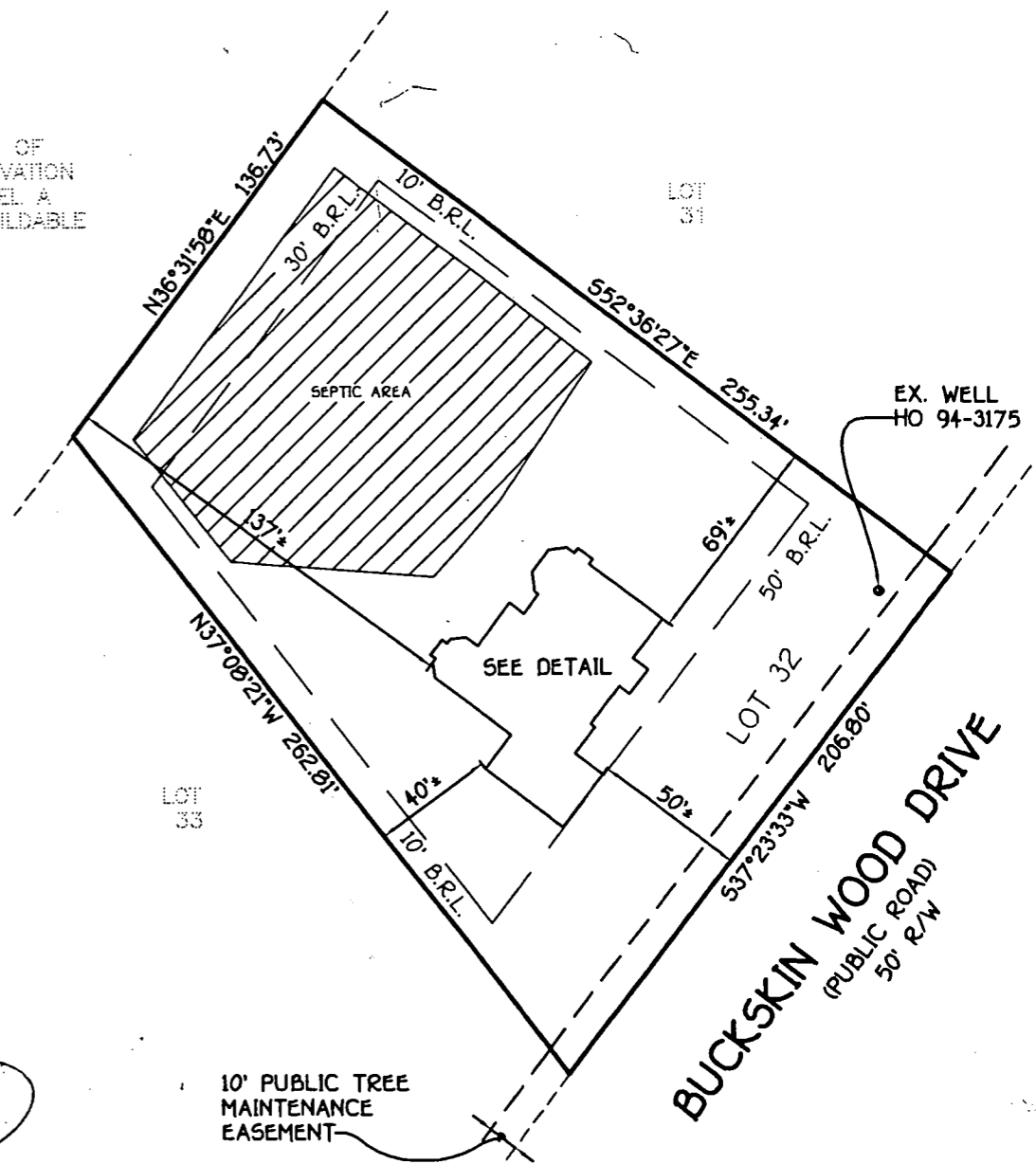
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 1027E BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 481-2955

Mark L. Robel 11/24/04
PROFESSIONAL LAND SURVEYOR DATE
REG. # 339

*4204 BUCKSKIN WOOD DRIVE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEV. 632.1'



PART OF PRESERVATION PARCEL A NON-BUILDABLE



12/17/04
wall check
OK (KJB)

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 11/23/04
FINAL LOCATION: _____
BOUNDARY SURVEY: _____
SCALE: 1"=60'
DATE: 11/24/04
DRAWN BY: V.L.J.
CHECKED BY: M.L.R.
PROJECT No.: 61700

LOT 32
REVISION-PLAT
BUCKSKIN RIDGE
LOTS 1 THRU 47
AND PRESERVATION PARCEL A
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PLAT. NO. 15703

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 Water Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: JOEL ISAACS PLBG Telephone #: 410-442-5780
Address: PO BOX 272
LISBON, MD 21765

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): JOEL A ISAACS License# MD-4524

*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: COLUMBIA BUILDERS Telephone #: 410-730-3939
Subdivision: LIVE OAK & BUCKSKIN Lot #: 32 Well Tag #: HO 94-3125
Site Address: 284 BUCKSKIN WOOD DR
LUCYKOTT CITY, MD 21042

Submersible Pump Data
Make: STAR X Pitless Adapter Make: CAMPBELL Well Cap and Electric Conduit
Model #: SSP4 COML Model #: PT800 Two piece watertight cap:
Pump Capacity: 5 GPM Depth: 42 (36" min) Screened, vented well cap:
Well Yield: 10 GPM NSF approved: Cap secured to casing:
Depth of well or: countered at time of pump installation 400 (feet) Conduit min 18" B.G.:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrester or Cable guides are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt Conduit secured to well cap:

Piping to house
Type: PDU1 House Connection
PSI: 160 (160 psi min) PVC sleeved to undisturbed soil at wall penetration:
Depth of supply line: 42 (36" min) Approximate length of sleeve: 10
Sleeve caulked and sealed properly:

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

Signature of company representative responsible for installation: [Signature] Date: 3/3/05

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

Date Insp. Requested: _____ Date Insp. Approved: 5/16/05 (EB) 4/29/05
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

chlorinating
(GAC)

C1 0636

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

FILL IN THIS FORM COMPLETELY PLEASE TYPE

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

COUNTY NUMBER 13

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

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 10/4/01

Depth of Well 400 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 94-3175

OWNER Floyd Lane LLC STREET OR RFD Buckskin Wood Drive TOWN Ellicott City SUBDIVISION Buckskin Ridge SECTION LOT 32

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND, IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include Top Soil, Brown Shale, Brown Mica, Gray Mica, Fractured Zone, Gray Mica.

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES (Y) NO (N)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 21 NO. OF POUNDS 2100 GALLONS OF WATER 126 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 76 ft.

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

MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 80

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

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

DEPTH (nearest ft.) HO 78 400

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES (Y) NO (N)

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DRILLERS LIC. NO. 1 M-W-D-040 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 M-S-D-038

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

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 3 PUMPING RATE (gal. per min.) 10 METHOD USED TO MEASURE PUMPING RATE Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 64 ft. WHEN PUMPING 146 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED 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) 31 35 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) (+) above LAND SURFACE (-) below 2 (nearest foot)

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) see plat

B 1 9257

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-94-3175

W513311 please print or type

Date Received (APA)

06-30-01

OWNER INFORMATION

8649

Floyd Lane L L C

15 Last Name Owner First Name 34

P. O. Box 999

36 Street or RFD 55

Columbia, Md 21044

57 Town 70 State 72 Zip 76

DRILLER INFORMATION

George F. Easterday

M W D 040

Driller's Name 76 License No. 81

L. Franklin Easterday, Inc.

Firm Name

9265 Brown Church Rd., MT. Airy, Md. 21771

Address

Signature: George F. Easterday Date: 6/25/2001

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

5

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL COMMERCIAL DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

GEO-THERMAL

APPROXIMATE DEPTH OF WELL 24 300 28 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVERSE-ROTARY DRIVE-POINT

other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

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) 41

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

APPROX. PERMIT NUMBER HO 200000011(01)

PERMIT No. HO-94-3175

LOCATION OF WELL

Howard

8 COUNTY 21 CCH#

Buckskin Ridge

23 SUBDIVISION 42

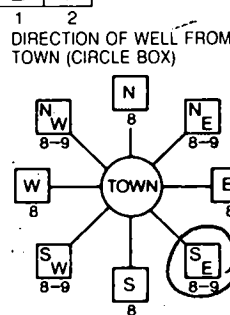
SECTION 44 46 LOT 32 48 50

Glenelg

52 NEAREST TOWN 71

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

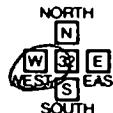
DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Buckskin Wood Drive

11 NEAR WHAT ROAD 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 30 37 DISTANCE FROM ROAD Ft.

ENTER FT OR MI 38 39

TAX MAP: BLK: PARCEL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO.

STATE SIGNATURE INSERT \$ 41

DATE ISSUED 08/26/01 CO SIGNATURE EXP DATE

NORTH GRID 519 000 EAST GRID 0850 000

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- 1. wells
- 2.
- 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

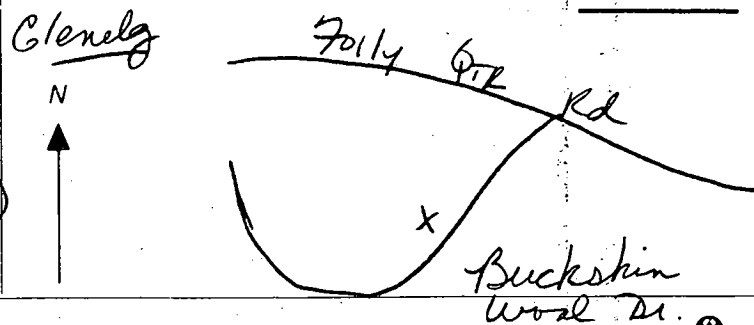
800

5109

Handwritten notes: 10/4/01, Well 400', Casing 80', Annular 76', Bags 21, 30' gravel line

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

9K11



SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

APPLICATION

PERCOLATION TESTING

A 513618-HH

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 Jared T. Healy, Trustee and M. Charlotte Powel, Trustee

ADDRESS 10715 Charter Dr., Columbia, MD 21044 PHONE 410-730-4545

AGENT OR PROSPECTIVE BUYER Floyd Lane, L.L.C. CONTACT: Tim Feaga, Heritage Land Develop

ADDRESS P.O. Box 999, Columbia, MD 21044 PHONE 410-489-7900, ext. 11

PROPERTY LOCATION:

SUBDIVISION _____ LOT NO. 20 352

ROAD AND DESCRIPTION Buckskin Woods Drive, Ellicott City, MD 21042

TAX MAP 22 PARCEL # 77, 283 and 74

SIZE OF LOT 1 acre TYPE BLDG. SFD
(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.

B. James Greenfield
(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

104

0' topsoil

6' dull org brn cl lm

2' br org brn sa cl lm

4' med red brn to beige sa mica lm

10% sapt sh

105

0' topsoil

6' org brn cl lm

2.5' med org brn ser cl lm

4' med red brn sa mica lm

w/ 20% sapt sh

106

0' topsoil

6' org brn cl lm

4' med org brn to dr red brn sa mica lm

15-20% sapt sh

SOIL PROFILE

108

0' topsoil

6' org brn cl lm w/ sh frag

3.5' med dr brn sa mica lm

w/ > 60% sapt sh

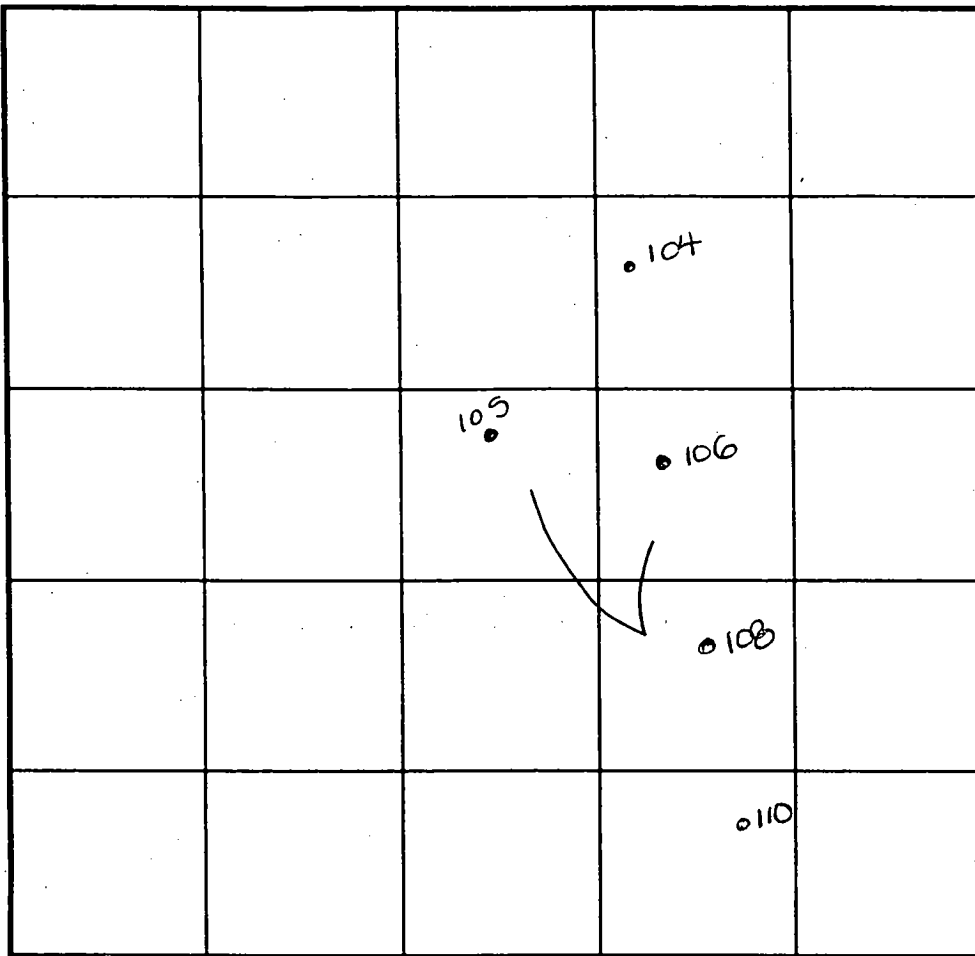
110

0' topsoil

6' org brn cl lm

org brn to dr red brn sa mica lm

15% sapt sh



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-4-00	105	3.5' S	11:28 ₃	11:34	11:34	11:43	9
		12.5' D	visual	-see	profile		OK
	104	3.5' S	11:41	little slow	-test stopped		-
		13.0' D	visual	-see	profile		OK
		5.0' M	11:54	12:06	12:06	12:22	16
	106	12.5' D	visual	-see	profile		OK
	108	3.0' S	12:11	12:16	12:16	12:28 ₃	13
		11.5' D	visual	-see	profile		FAIL
	110	13.5' D	visual	-see	profile		OK
	108	6' 8" M	2:48 ₃	2:50 ₃	2:50 ₃	2:52 ₃	2 FAIL

REMARKS holes tested as staked

TYPE OF SOIL _____

TESTED BY DKS ALSO PRESENT C. Zepp, T. Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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

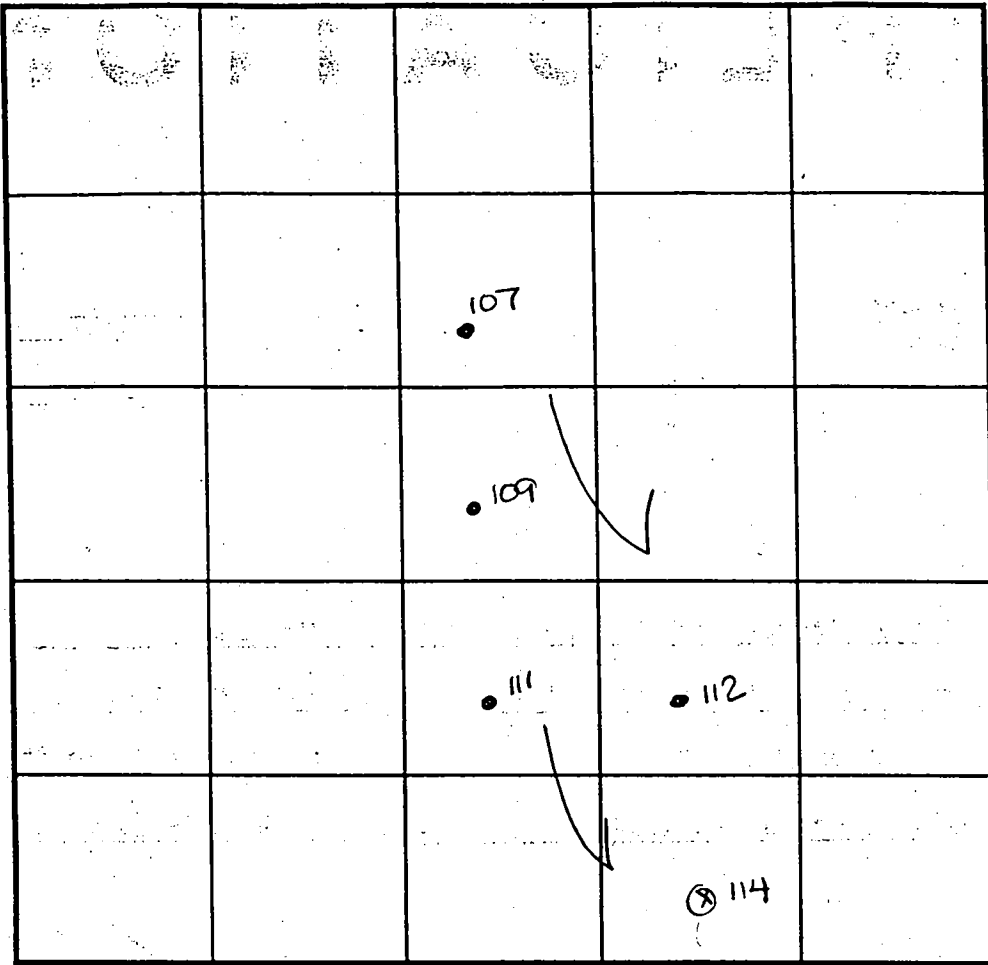
COUNTY #

SOIL PROFILE

112
 topsoil
 org bn
 cl m
 br
 org bn
 sa cl m
 w mica
 med
 red bn
 sa mica
 w mica
 20% sh

107
 topsoil
 org bn
 cl m
 br
 org rad
 bn
 sa mica
 m
 w 25% ot
 sapr sh

109
 topsoil
 org bn
 cl m
 med
 org bn
 to
 med red
 bn
 sa mica
 m
 15% sapr sh



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

111
 topsoil
 br
 org bn
 cl m
 med
 pe bn
 sa mica
 m
 15-20% sapr sh

114
 topsoil
 br
 org bn
 cl m
 pale
 org red
 tan
 sa mica
 m 15% sh

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-4-00	112	3.5' S	12:46 ₂	slow	test stopped		—
		11.0' D	Visual	- see	profile		OK
	107	12.0' D	Visual	- see	profile		OK
	109	4.0' S	12:55 ₂	12:56	12:56	12:57 ₂	2
		11.5' D	Visual	- see	profile		OK
	112	4.5' M	2:43	2:44 ₂	2:44 ₃	2:47 ₃	3
	111	4.0' S	2:58	3:01	3:01	3:06 ₃	5
		11.5' D	Visual	- see	profile		OK
	114	4.0' S	3:01 ₃	3:03	3:03	3:06	3
		12.5' D	Visual	- see	profile		OK

REMARKS: holes tested as stated, except 114

TYPE OF SOIL _____

TESTED BY DLE ALSO PRESENT C. Jepp, T. Feaga

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

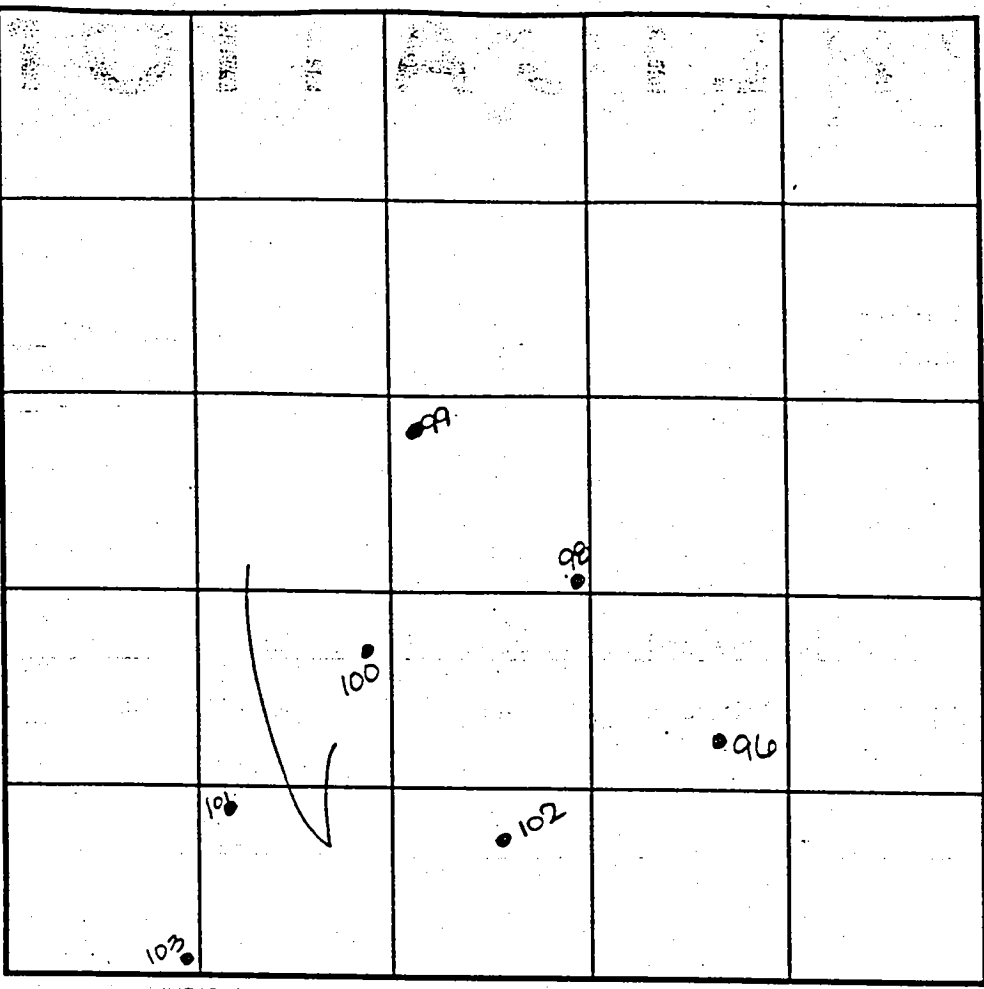
INLET DEPTH _____ MAXIMUM BOTTOM DEPTH _____ SQ. FT./BEDROOM _____

PROFILE

topsoil
 red
 org brn
 sa cl
 lm
 med
 red brn
 sa mica
 lm
 w/
 20%
 sapr
 sh

96/103
 topsoil
 org brn
 sa cl
 lm
 med red
 brn
 sa mica
 lm
 w/
 20%
 sapr
 sh

100/99
 topsoil
 dull ag
 brn
 cl lm
 br org
 brn
 sa cl
 lm
 med
 pk brn
 sa mica
 lm
 w/
 15-20%
 sapr
 sh



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE

102
 0'
 topsoil
 6'
 dull
 org brn
 cl lm
 4'
 br org
 brn
 to
 pale
 pk to
 a/c
 sa mica
 lm
 13'
 5-15%
 sapr
 sh

101
 like
 100
 w/
 10%
 sapr
 sh

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
8-4-00	98	4.0'S	11:01 ₃	11:02 ₃	11:02 ₃	11:04	2
		13.0'D	visual	- see	profile		OK
	96	12.0'D	visual	- see	profile		OK
	100	4.0'S	11:07 ₃	11:08 ₃	11:08 ₃	11:10	2
		12.0'D	visual	- see	profile		OK
	103	3.5'S	11:12	11:17 ₃	11:17 ₃	11:25 ₃	8
		12.5'D	visual	- see	profile		OK
	99	12.0'D	visual	- see	profile		OK
	101	11'8"D	visual	- see	profile		OK
	102	13.0'D	visual	- see	profile		OK

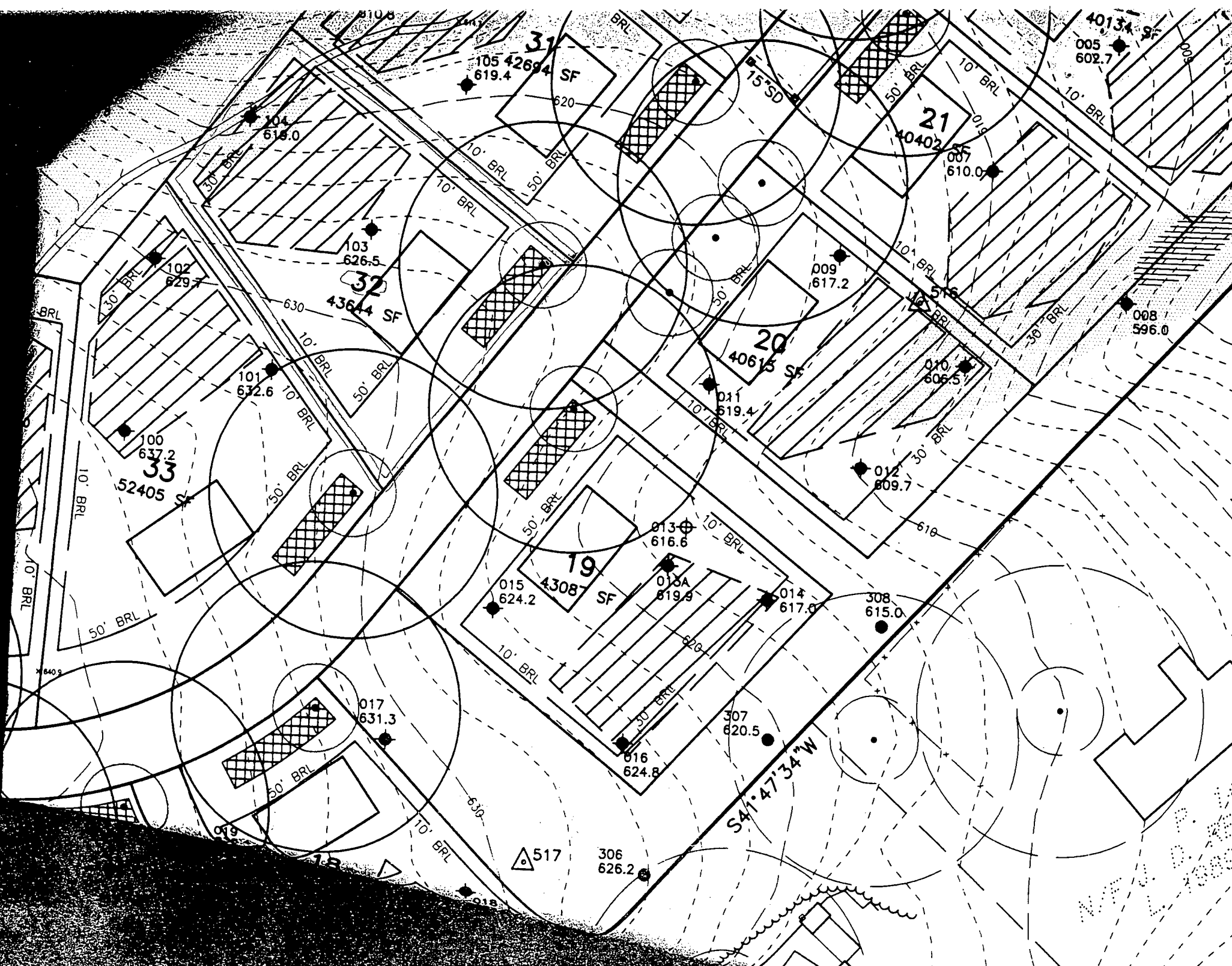
REMARKS holes tested as stated

TYPE OF SOIL _____

TESTED BY DKS ALSO PRESENT C. Zepp, T. Peacor

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME _____ TRENCH WIDTH _____

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



105 42694 SF
619.4

40134 SF
005 602.7

21
40402 SF
007 610.0

32
43644 SF

20
40615 SF

33
52405 SF

19
43087 SF

017 631.3

517

306 626.2

S41°47'34\"/>

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 54902 Account #: 1550
Reference: Lakeview at Buckskin Lake Lot 32 Company: Columbia Builders
Location: 4284 Buckskin Wood Drive Requested By: Terry Brownley
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 05/13/05 1021 Site: Holding Tank
Date/Time Rec'd: 05/13/05 1325 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.3
Collected By: J. Yeager 6176JY Well #: HO-94-3175

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.
Nitrate	<1.0	mg/L	10	601
Turbidity	2.56	NTU	<10	SM18 2130B
Sand	NS	mg/L	5	Visual/Gravimetric

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH tested on-site

Reason for Test : Use & Occupancy
Building Permit # : 00150566

Date Reported: 05/16/05



Howard County
Health Department

7178 Columbia Gateway Drive, Columbia Maryland 21046
(410) 313-1771 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

May 18, 2005

Columbia Builders, Inc.
P.O. Box 999
Columbia, MD 21044

FACSIMILE SENT 410-992-3020

RE: Buckskin Ridge, Lot 32
4284 Buckskin Wood Drive
Ellicott City, MD 21043
BP #: B00150566
Well Permit # HO-94-3175

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 01/19/2005. Final approval of the well line connection to the dwelling was approved on 05/16/2005.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were 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-94-3175. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 05/13/2005
Date of Well Completion: 10/04/2001

Approving Authority,

Brian Baker
Brian Baker, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

