

LAYOUT 2/23/05 INSP 4 _____
INSP 2 2/24/05 DAM INSP 5 _____
INSP 3 _____ INSP 6 _____

ISSUE DATE: 12/17/2004

P 521626

APPROVAL DATE: 2/24/05

A 513618-X

PERMIT INDEXED

**ON-SITE SEWAGE DISPOSAL SYSTEM
HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
3525-H ELLICOTT MILLS DRIVE, ELLICOTT CITY, MD 21043**

Hatfields Equipment IS PERMITTED TO INSTALL ALTER

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

SUBDIVISION: Buckskin Ridge LOT NUMBER: 23

ADDRESS: 4269 Buckskin Wood Drive PROPERTY OWNER: Columbia Builders, Inc.

SEPTIC TANK CAPACITY (GALLONS): 2000 OUTLET BAFFLE FILTER REQUIRED

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

NUMBER OF BEDROOMS: 5

SQUARE FEET PER BEDROOM: 210

LINEAR FEET OF TRENCH REQUIRED: 153 HOUSE SERVED BY PUBLIC WATER

Handwritten notes:
2' Wide
Inlet 3'
Bottom 3.5'

TRENCHES:	Trench to be 3.0 feet wide. Inlet 3.0 feet below original grade. Bottom maximum depth 6.0 feet below original grade. Effective area begins at 3.0 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 *(Signature)* DATE: 8/2/2004

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 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
DO NOT LEAVE ANY REQUEST FOR INSPECTION ON VOICEMAIL**

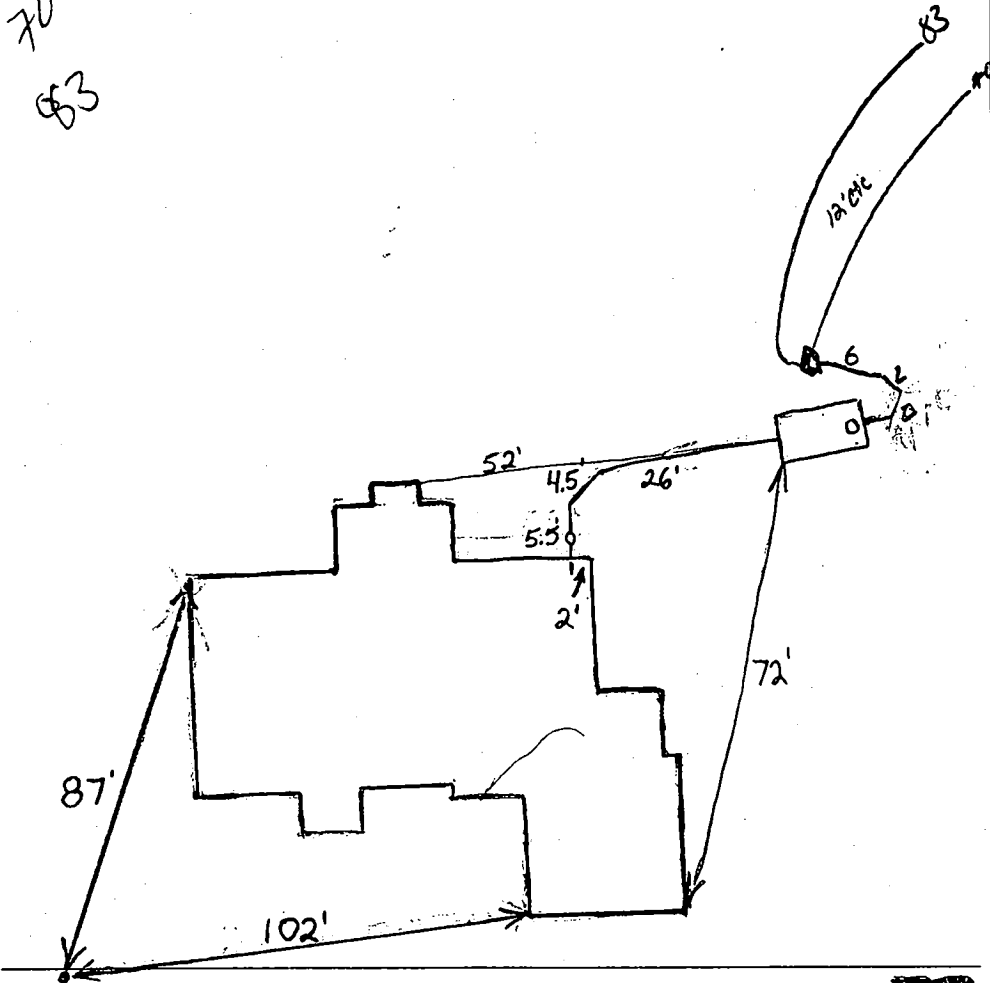
**BUILDING PERMIT SIGNED
AND RETURNED**

Handwritten: 10/4/05 BOO 156435- DECK

Vertical stamp: A513618-X

NOT TO SCALE

70
83



HO-94-3159 Buckskin Wood Drive

TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		153'
ABSORPTION AREA		459 #
DISTRIBUTION BOX LEVEL		<input checked="" type="checkbox"/>
DISTRIBUTION BOX BAFFLE		<input checked="" type="checkbox"/>
DISTRIBUTION BOX PORT		<input type="checkbox"/>

SEPTIC TANK DATA	
SEPTIC TANK 1 LEVEL	Yes
CAPACITY	2000 GAL
SEAM-LOC	Top
TANK LID DEPTH	
BAFFLES	Yes
BAFFLE FILTER	No
MANHOLE LOC	
6" PORT LOC	Rear
WATERTIGHT TEST	No
SEPTIC TANK 2 LEVEL	N/A
CAPACITY	
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	

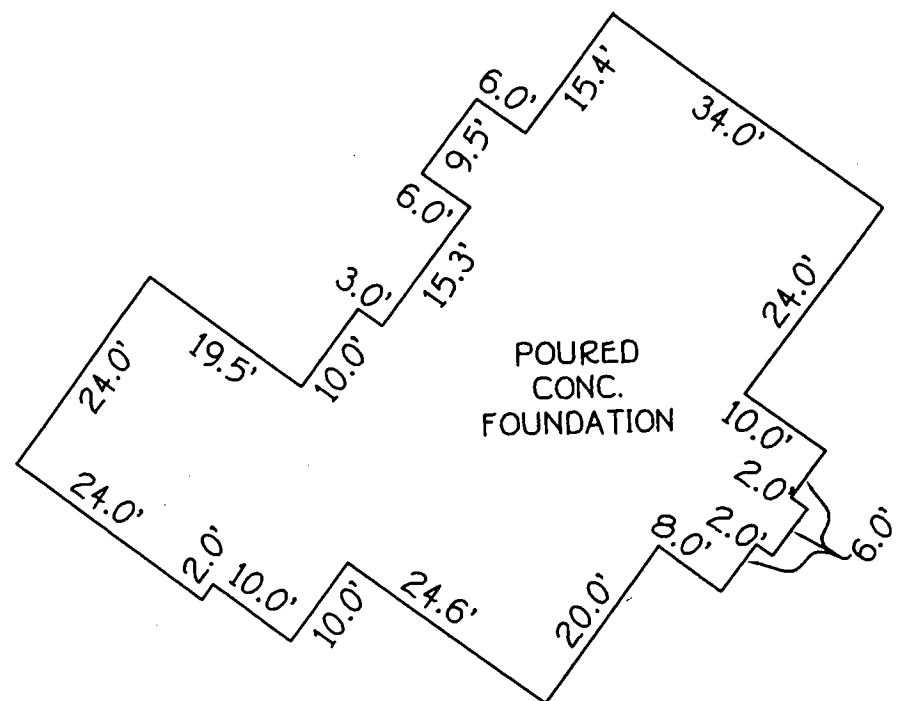
PRE-CONSTRUCTION 2/23/05 Area staked. Contour similar to plan.
 Changed trench design to utilize area better. See front of
 INSTALLATION permit. Suggest installing a 65' and 85' trench. **BB**
 2/24/05 (2) trenches OK to cover **KSB**

FINAL INSPECTOR KSB

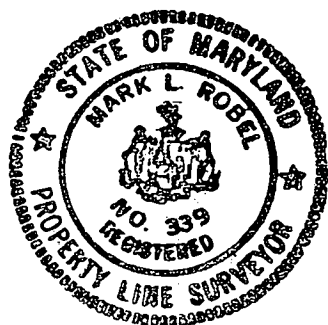
DATE OF APPROVAL 2/24/05

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-94-3159) HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



DETAIL:
1"=20'



Mark L. Robel 12/10/04
PROFESSIONAL LAND SURVEYOR DATE
REG. 339

*4269 BUCKSKIN WOOD DRIVE
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEV. 596.6'

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLEOTT CITY, MARYLAND 21042
(410) 461-2895

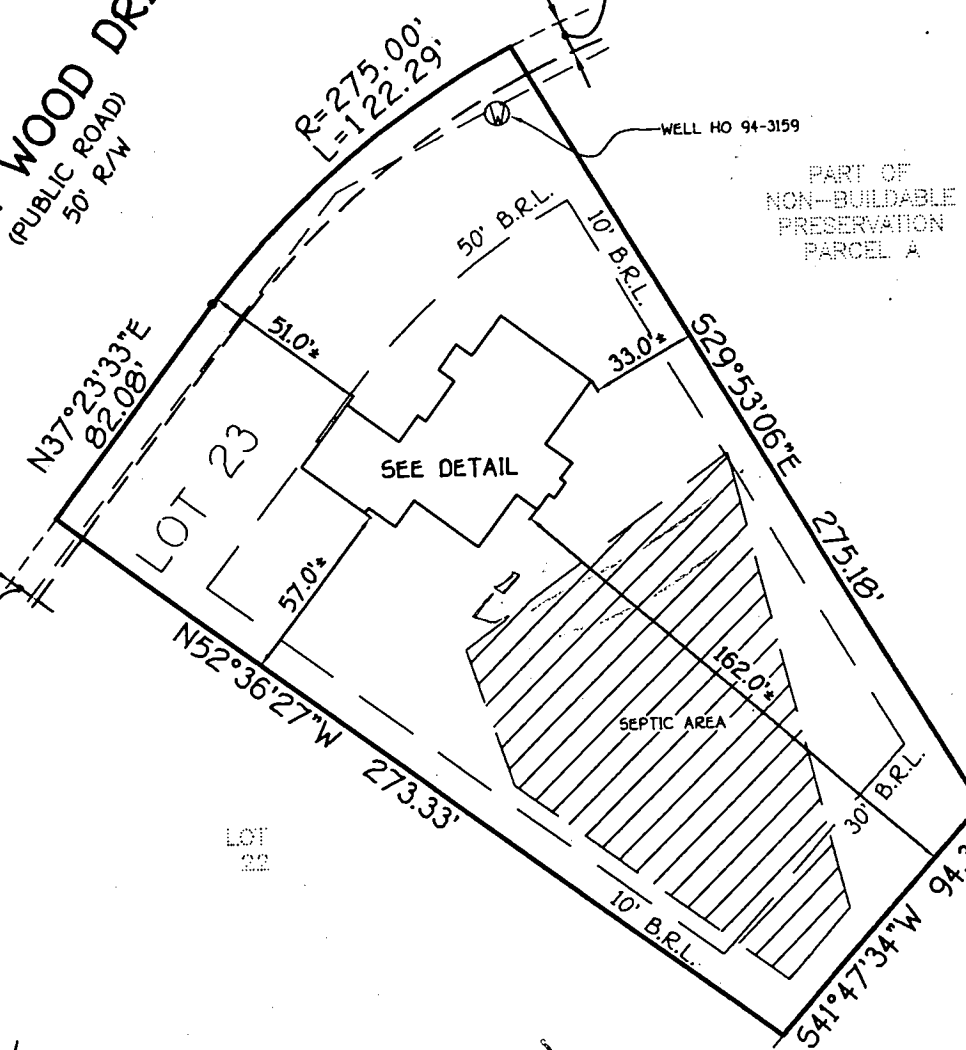
BUCKSKIN WOOD DRIVE
(PUBLIC ROAD)
50' R/W

PRIVATE STORMWATER
MANAGEMENT DRAINAGE
AND UTILITY
EASEMENT

10' PUBLIC TREE
MAINTENANCE
EASEMENT

WELL HO 94-3159

PART OF
NON-BUILDABLE
PRESERVATION
PARCEL A



12/17/04
well check OK
KJB

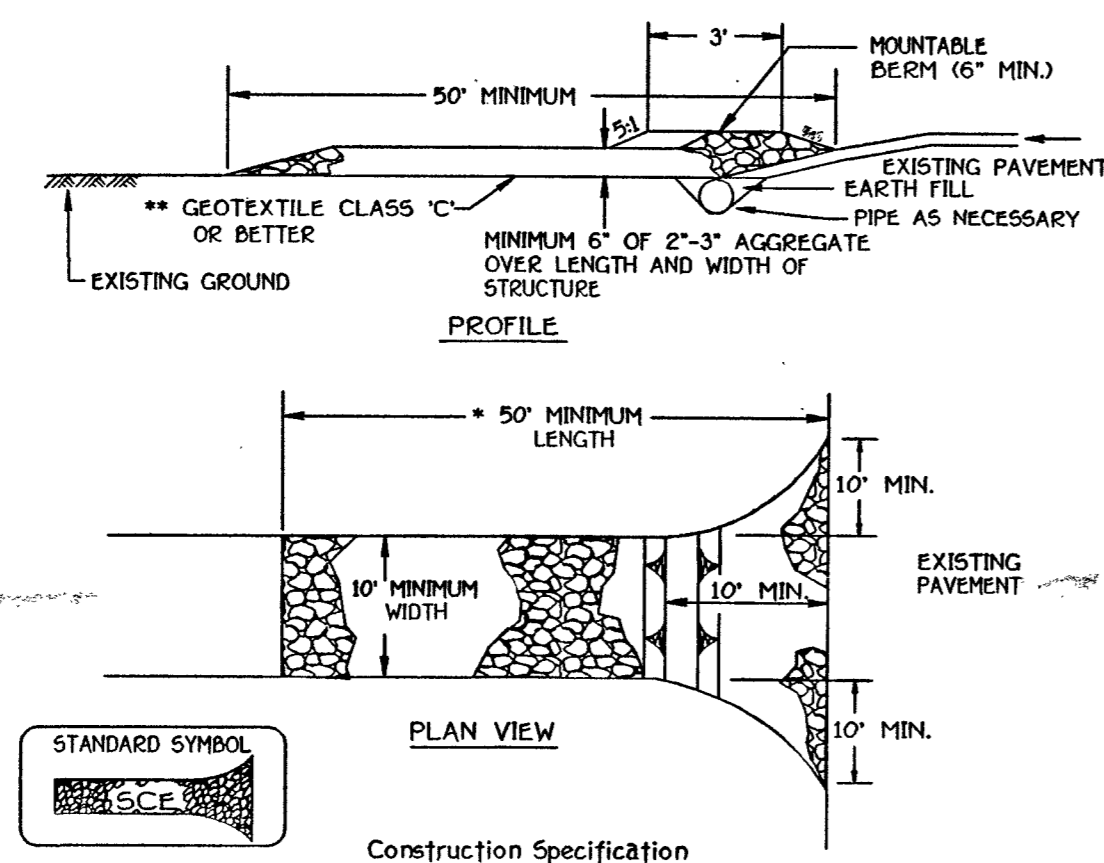
HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 11/23/04
FINAL LOCATION: _____
BOUNDARY SURVEY: _____
SCALE: 1"=60'
DATE: 12/10/04
DRAWN BY: M.L.R.
CHECKED BY: M.L.R.
PROJECT No.: 61700

LOT 23
REVISION PLAT
BUCKSKIN RIDGE
LOTS 1 THRU 47
AND PRESERVATION PARCEL A
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
PLAT. NO. 15703

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 (03-10-2004).
- 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 37 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DITCHES, FENCEPOSTS AND ALL SLOPES STEEPER THAN 3:1. IN 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND MARKING 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 PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, FOR PERMANENT SEEDING (SEC. 20, 500 LBS. PER ACRE); TEMPORARY SEEDING (SEC. 50, AND MULCHING (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 PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:
 - TOTAL AREA OF SITE: 0.9194 ACRES
 - AREA TO BE GRADED OR PAVED: 0.8156 ACRES
 - AREA TO BE VEGETATIVELY STABILIZED: 0.3237 ACRES
 - TOTAL CUT: 228 CUBIC YDS.
 - TOTAL FILL: 749 CUBIC YDS.
- OFFSITE WASTEWATER/SEWER AREA LOCATION: N/A
- ANY SEDIMENT CONTROL PRACTICES WHICH ARE 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 OBTAINED UPON COMPLETION OF INSTALLATION OF PERIMETER SEDIMENT CONTROL STRUCTURES, BUT BEFORE PROCEEDING WITH ANY OTHER GRADING, DISTURBANCE OF GRASSING, OTHER BUILDING OR EARTH CONSTRUCTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THE INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TECHNIQUES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE DUCK-FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

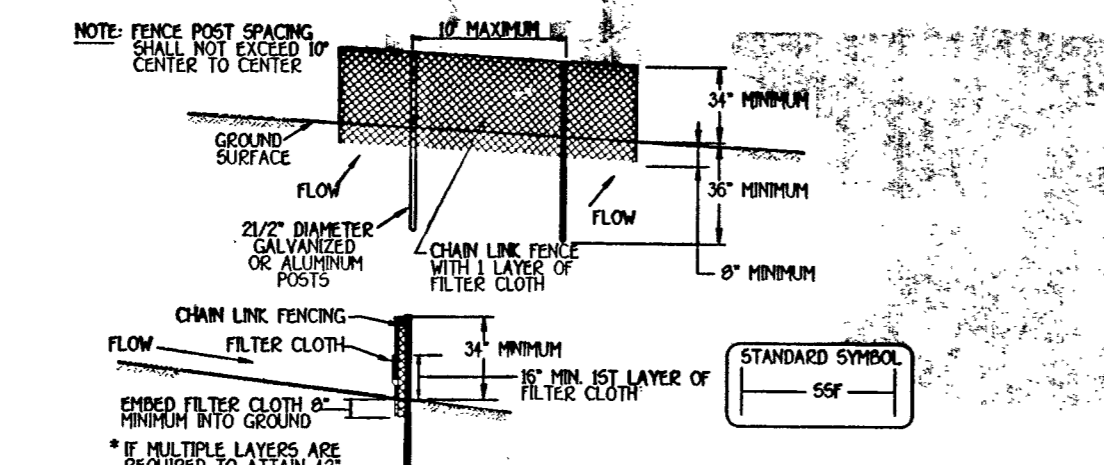


Construction Specification

- Length - minimum of 50' (30' for single residence lots).
- Width - 10' minimum, should be (fitted) 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 site approval authority may not require single family 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 berm with 5:1 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. Vehicles moving the site must travel over the entire length of the stabilized construction entrance.

STABILIZED CONSTRUCTION ENTRANCE - 2

NOT TO SCALE

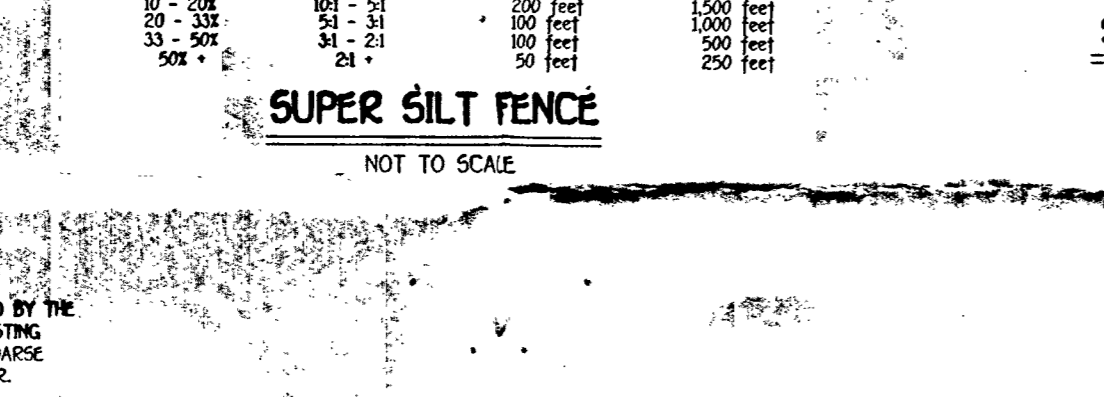


Construction Specifications

- Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencing. The specification for a 2' fence shall be used, substituting 42" fabric and 6" height posts.
- Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and stress rods, drive anchors and post caps are not required except on the ends of the fence.
- Filter cloth 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 8" into the ground.
- When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and fastened.
- Maintenance shall be performed as needed and all bulges removed when "bulges" develop in the silt fence, or when they reduce 2/3 of fence height.
- Filter cloth shall be fastened securely to each fence post with wire ties or staples at top mid section and shall meet the following requirements for Geotextile Class F:
 - Tensile Strength: 20 lbs/in (min)
 - Flow Rate: 1.3 gal/ft²/minute (max)
 - Filtering Efficiency: 75% (min)

SUPER SILT FENCE

NOT TO SCALE

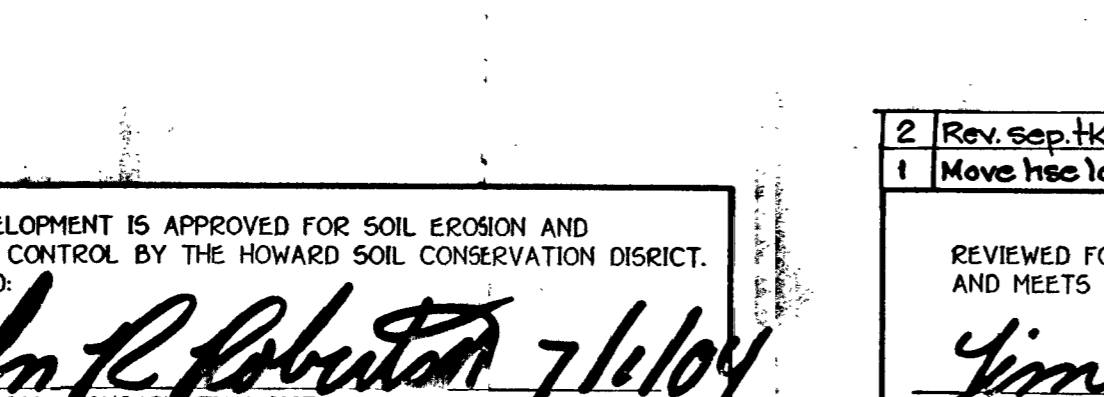


Construction Specifications

- 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 roof 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.

SEQUENCE OF CONSTRUCTION

NOT TO SCALE



Construction Specifications

TEMPORARY SEEDING NOTES

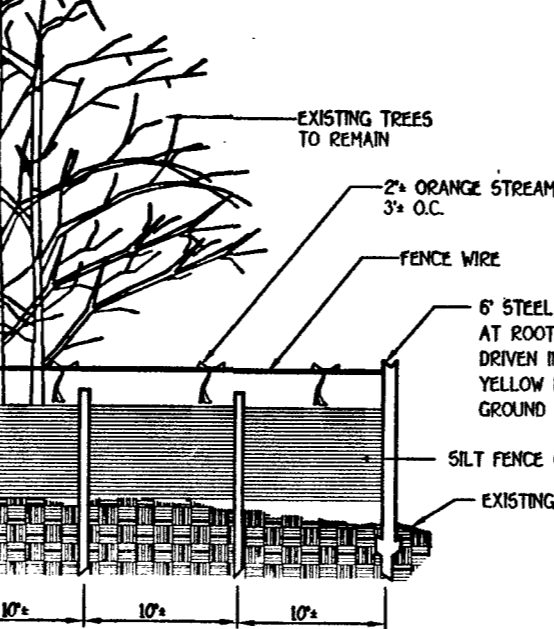
- APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE RE-DISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.
- SEEDING PREPARATION**
LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.
- SOIL AMENDMENTS**
APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER @ 1/2 LBS./1,000 SQ.FT.
- SEEDING**
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH NOVEMBER 15, SEED WITH 1 1/2 BUSSHEL PER ACRE OF ANNUAL RYE. 1/2 LBS./1,000 SQ.FT. FOR THE PERIOD MAY 1 THRU AUGUST 31, SEED WITH 3 LBS./ACRE OF WEEPING LOVEGRASS @ 1/2 LBS./1,000 SQ.FT. FOR THE PERIOD NOVEMBER 16 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 TO 2 TONS PER ACRE (90 TO 180 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF ASPHALT OR 250 GALLONS PER ACRE OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER USE 340 GALLONS PER ACRE @ GAL./1,000 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, DISING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
- SOIL AMENDMENTS**
APPLY TWO TONS PER ACRE DOLOMITE LIMESTONE @ 1/2 LBS./1,000 SQ.FT. AND 600 LBS. PER ACRE 0-20-20 FERTILIZER @ 1/2 LBS./1,000 SQ.FT. BEFORE SEEDING HARROW OR DIS INTO UPPER THREE INCHES OF SOIL. AT THE TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREA/FORM FERTILIZER @ 1/2 LBS./1,000 SQ.FT. AND 500 LBS. PER ACRE @ 1/2 LBS./1,000 SQ.FT. OF 10-20-20 FERTILIZER.
- SEEDING**
FOR THE PERIODS MARCH 1 THROUGH APRIL 30, AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 300 LBS. PER ACRE @ 2/3 LBS./1,000 SQ.FT. OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS./ACRE @ 1/4 LBS./1,000 SQ.FT. KENTUCKY 31 TALL FESCUE AND 2 LBS. PER ACRE @ 1/2 LBS./1,000 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 300 LBS./ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH TWO TONS/ACRE WELL ANCHORED STRAW. ALL SLOPES SHOULD BE HYDROSEED.
- MULCHING**
APPLY 1 TO 2 TONS PER ACRE (90 TO 180 LBS./1,000 SQ.FT.) OF UNROTTED SMALL GRASS STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING 200 GALLONS PER ACRE OF ASPHALT OR 250 GALLONS PER ACRE OF EMULSIFIED ASPHALT ON FLAT ACRES, ON SLOPES 8 FEET OR HIGHER USE 340 GALLONS PER ACRE @ GAL./1,000 SQ.FT. FOR ANCHORING.
- MAINTENANCE**
INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.
* FOR PUBLIC PLOTS SUBSTITUTE CHESSING CROMWELL AT 1/5 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.

SILT FENCE & TREE PROTECTION

NOT TO SCALE



Construction Specifications

- 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 roof 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.

LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
+	SPOT ELEVATION
-S/FP--S/FP-	SILT FENCE & TREE PROTECTION
-S-F--S-F-	SUPER SILT FENCE
---	PROPOSED WALKOUT
---	LIMITS OF DISTURBANCE
○	EXISTING STREET TREES FROM F-01-191

GENERAL NOTES

- SUBJECT PROPERTY ZONED: RC-DEO
- TOTAL AREA OF PROPERTY: 41,357 SQ.FT.
- SEPTIC TRENCH TO BE DETERMINED AT TIME OF SEPTIC PERMIT ISSUANCE.
- CONTRACTOR/BUILDER TO VERIFY ELEVATION IN THE FIELD BEFORE BEGINNING ANY CONSTRUCTION.
- FIELD RUN TOPOGRAPHIC SURVEY DONE BY CLARK, FINEROCK & SACKETT, INC.
- NO WETLANDS CURRENTLY EXIST ON THE PROPERTY.
- DRIVEWAY CULVERTS SHALL BE CONSTRUCTED AT SITE DEVELOPMENT PLAN STAGE IN ACCORDANCE WITH APPROVED CULVERT SIZE SHOWN ON F-01-191.
- STORMWATER MANAGEMENT IS PROVIDED UNDER F-01-191.

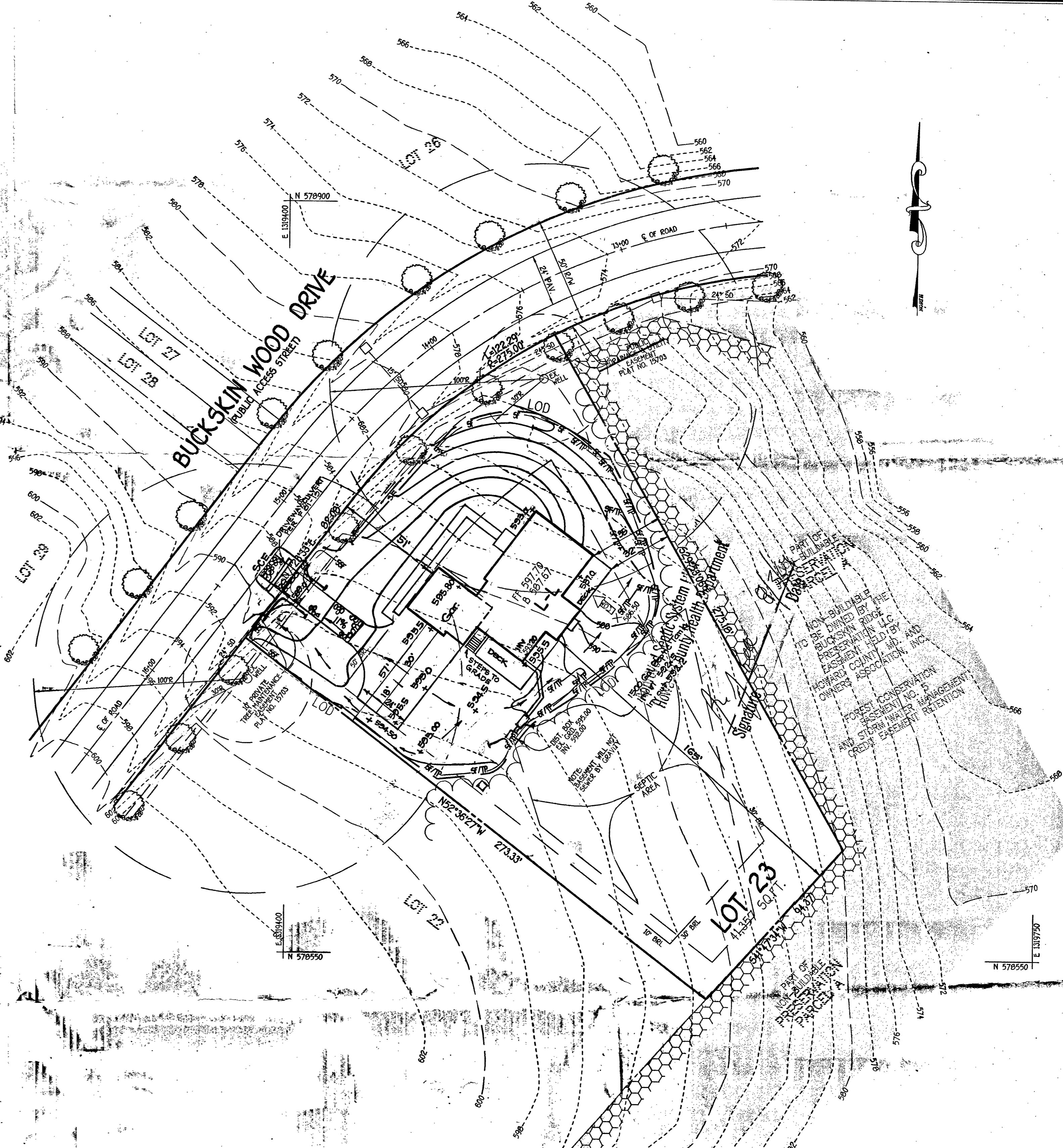
SEQUENCE OF CONSTRUCTION

NO.	DESCRIPTION	ESTIMATED DURATION
1	Rev. sep. tk. loc. & drainage swale per Ho Co Health	7-29-04
2	Move hse loc. forward 4 wch 5', reloc septic tank.	7-29-04

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

APPROVED: *John R. Robertson* 7/1/04
HOWARD COUNTY SOIL CONSERVATION DISTRICT

APPROVED: *Jim Myers* 7/1/04
M.D.A. NATURAL RESOURCES CONSERVATION SERVICE



BUILDER/DEVELOPER

COLUMBIA BUILDERS
P.O. BOX 990
COLUMBIA, MARYLAND 21044
410-730-3940

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: *B. James Greenfield* 6-21-04
DATE

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: *Earl D. Collins* 6-21-04
DATE

SITE DEVELOPMENT, SEDIMENT/EROSION CONTROL PLAN, NOTES & DETAILS

LOT 23
ZONED RR-DEO PLAT NO. 15705
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1"=30' DATE: JUNE, 2004

G.P. 04-115

EX. SHED TO
BE RAZED
SHEET 2

24
44713 SF

25

PART OF PRES. PARCEL
N41°47'23"E

N48°12'26"W

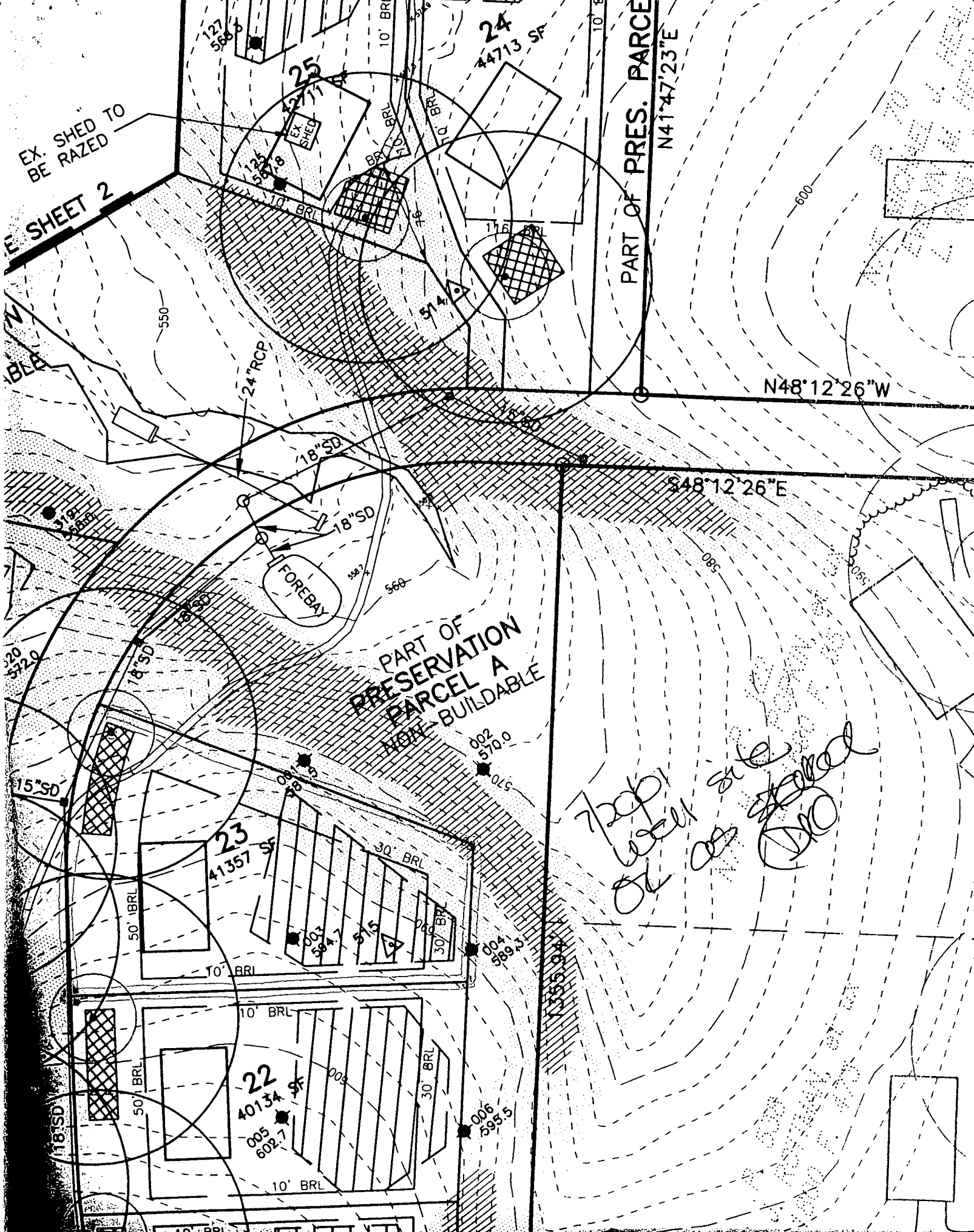
S48°12'26"E

PART OF
PRESERVATION
PARCEL A
NON-BUILDABLE

Handwritten:
Well site
DO

23
41357 SF

22
40134 SF



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 Pipe

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 PLUMBING Telephone #: 410-442-5780
Address: P.O. Box 222
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 E ISAACS License # MO-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: LAKELAND AT ROCKY HILL Lot #: 73 Well Tag #: HO 94-3159
Site Address: 4719 BIRCHWOOD DR
ELLICOTT CITY, MD 21042

Submersible Pump Data
Make: STALITE Pitless Adapter Make: AMERICAL Well Cap and Electric Conduit
Model #: SP-402UC Model #: PT500 Two piece watertight cap:
Pump Capacity: 5 GPM Depth: 42 (36" min) Screened, vented well cap:
Well Yield: 5 GPM NSF approved: Cap secured to casing:
Depth of well encountered at time of pump installation: 100 (feet) Conduit min 1 1/2" B.G.:
Conduit secured to well cap:
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors on cable glands are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt:

Piping to house:
Type: PVC 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, drainfields, 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: 3/8/05 Date Insp. Approved: 6/20/05 **GAC**
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 ground observed below pitless adapter

C1 0620

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)

COUNTY NUMBER 13 OK KG 11-19-01

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED 10/22/01

DEPTH OF WELL 600 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-94-3159

OWNER Floyd Lane LLC STREET OR RFD Buckskin Wood Drive TOWN Ellicott City SUBDIVISION Buckskin Ridge SECTION LOT 23

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Topsoil, Shale, Brown mica, Gray mica, Blue/gray mica, Gray mica opening, and Gray mica.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM, BC), NO. OF BAGS (17), NO. OF POUNDS (1700), GALLONS OF WATER (1.02), DEPTH OF GROUT SEAL (58 ft).

CASING RECORD: MAIN CASING TYPE (ST), Nominal diameter (10), Total depth of main casing (58).

OTHER CASING (if used) table with columns for diameter and depth.

SCREEN RECORD: screen type or open hole (HO), diameter of screen (58), slot size (1, 2, 3).

PUMPING TEST: PUMPING TEST (C3), HOURS PUMPED (6), PUMPING RATE (1), METHOD USED TO MEASURE PUMPING RATE (Bucket), WATER LEVEL (23 ft before, 215 ft when), TYPE OF PUMP USED (S).

PUMP INSTALLED: DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (29), CAPACITY: GALLONS PER MINUTE (31-35), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (2 ft below land surface).

NUMBER OF UNSUCCESSFUL WELLS: 0

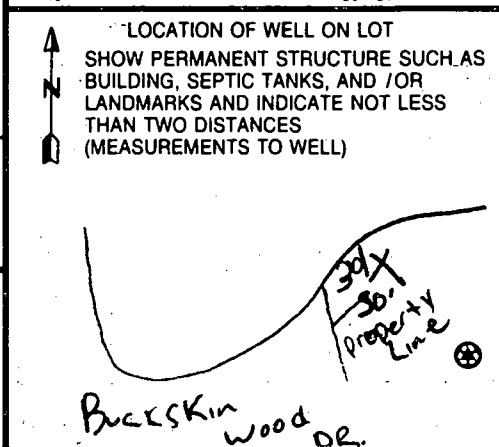
WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER (A, E, P).

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...

DRILLERS LIC. NO. MWD 7271, DRILLER'S SIGNATURE (George F. Easterday), LIC. NO. MWD 040, SITE SUPERVISOR (George F. Easterday).

DEPTH (nearest ft.) table with columns for depth intervals (1-11, 15-17, 23-26, 30-32, 38-41, 45-47, 51).

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL (68), MDE USE ONLY (T, W, Q), TELESCOPE CASING, LOG INDICATOR, OTHER DATA.



Age _____ of _____
Date _____

10-22-01
8:50

Review KL

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Needs A NEW
WELL CAP

Well Permit No. HO - 94-3159
Location of property (road) Buckskin Wood Drive
Subdivision Buckskin Ridge Lot 23 Block _____ Plat _____ Sec. _____
Well Driller G. Easterday Owner Floyd Lane LLC

Depth of well 600 29pm
Distance of measuring point (M.P.) above ground 2'
Static water level (S.W.L.) below M.P. 23' OV 100

I. High rate pumping -- reservoir drawdown

Time pump started 9:10 Pumping rate 15 gpm
Total time 25 min to reach pumping water level 208 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill \$1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
9:35	208'	43 sec	Pump set at 385'	1.3 gpm
9:50	208'	43 sec	Kent V. Berry	1.3 gpm
10:05	209	43 sec		1.3 gpm
10:20	210	43 sec		1.3 gpm
10:35	211	43 sec		1.3 gpm
10:50	212	47 sec		1.2 gpm
11:05	214	58 sec		1.0 gpm
11:20	214	58 sec		1.0 gpm
11:35	213	58 sec		1.0 gpm
11:50	213	58 sec		1.0 gpm
12:05	213	58 sec		1.0 gpm
12:20	213	58 sec		1.0 gpm
12:35	213	58 sec		1.0 gpm
12:50	213	58 sec		1.0 gpm
1:05	213	58 sec		1.0 gpm
1:20	213	58 sec		1.0 gpm
1:35	213	58 sec		1.0 gpm
1:50	214	58 sec		1.0 gpm
2:05	214	58 sec		1.0 gpm
2:20	215	59 sec		1.0 gpm
2:35	215	58 sec		1.0 gpm
2:50	215	58 sec		1.0 gpm
3:05	215	58 sec		1.0 gpm
3:20	215	58 sec		1.0 gpm

HD-224
3:35

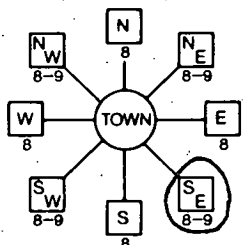
215 58 sec 1.0 gpm

B 1 **9249** SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND PERMIT TO DRILL WELL STATE PERMIT NUMBER
 1 2 6 **40-94-3159**
 70 fill in this form completely 79

Date Received (APA) **06-28-01** OWNER INFORMATION **8640**
 8 MM DD YY 13
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

B 3 LOCATION OF WELL
Howard CC#
 8 COUNTY 21
Buckskin Ridge
 23 SUBDIVISION 42
 SECTION **23** LOT **23**
 44' 46' 48' 50'
Glencly
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) **1** M I
 73 76 77 78

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**

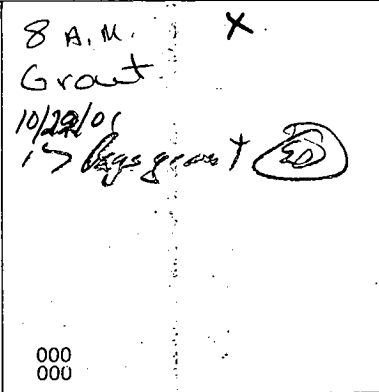
B 4
 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

Buckskin Wood Drive
 11 NEAR WHAT ROAD 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH WEST EAST SOUTH
 34 **20** 37
 DISTANCE FROM ROAD Ft. ENTER FT OR MI 38 39
 TAX MAP: _____ BLK: _____ PARCEL _____

B 2 WELL INFORMATION
 1 2 APPROX. PUMPING RATE **5**
 (GAL PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED **500**
 (GAL PER DAY) -14 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

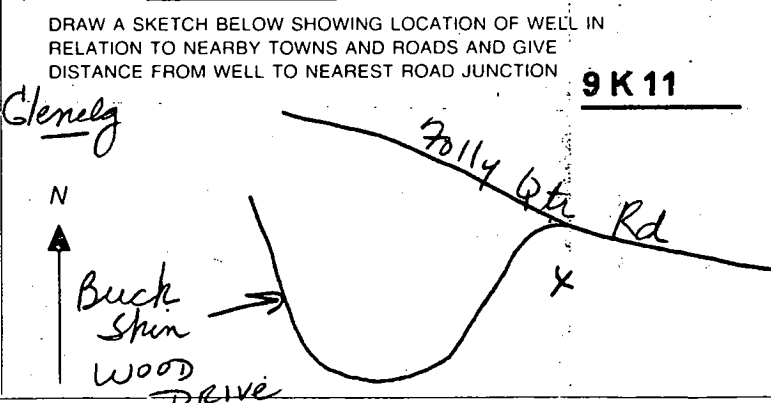
NOT TO BE FILLED IN BY DRILLER: HEALTH DEPARTMENT APPROVAL.
Howard **13**
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE INSERT S →
 DATE ISSUED **07-25-01** **07-24-02**
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
 NORTH GRID **519 000** EAST GRID **0806 000**
 50 55 57 63

APPROXIMATE DEPTH OF WELL **300** FEET
 24 28

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X
8 A.M. X
Grout
10/22/01
15 bags grout 
 SOURCES OF DRILLING WATER
 1. wells
 2.
 3.
 WRITE THE BOX NUMBER FROM THE MAP HERE
800 6
 E **5109** ← 000 000
 N

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
 30 37 CABLE REVERSE-ROTARY DRIVE-POINT
 other _____

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 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
 39
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION **9 K 11**


Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER **H 0 2 0 0 0 G 0 1 1**
 PERMIT No. **40-94-3159**
 70 71 72 73 74 75 76 77 78 79

APPLICATION

PERCOLATION TESTING

A 513618-X

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. 2 (23)

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 Crawford
(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

⑦/⑨

0' topsoil

6" br org brn sa cl Lm

2.5' pale red brn sa mica Lm

3' 25%+ sapr sh

12' Hard bottom

⑧/⑫

0' topsoil

6" org brn cl Lm

4' med red brn sa mica Lm

13' 20%+ sapr sh

⑩

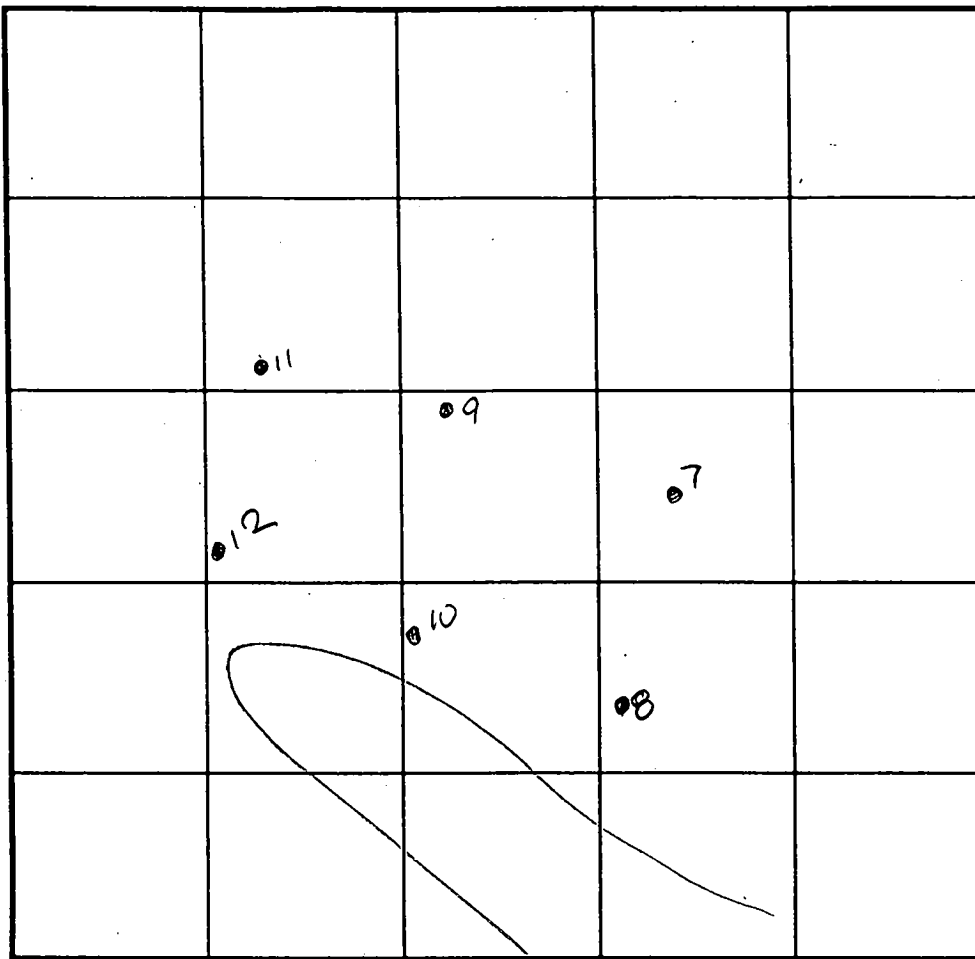
0' topsoil

6" br red brn cl Lm

3' med red brn sa mica Lm

25%+ sapr sh

11.5' Heavy frags



SOIL PROFILE

⑪

0' topsoil

6" br red brn cl Lm

4' pale red brn sa mica Lm

13' 15%+ sapr sh

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-25-00	7	2.5'S	11:01	11:04 ₂	11:04 ₂	11:08	4
		12.0'D	Hard	bottom	- see	profile	OK
	8	4.0'S	11:41	11:43 ₃	11:43 ₂	11:48	5
		13.0'D	visual	- see	profile		OK
	10	4'8" S	11:30	11:40	11:40	11:53	13
		11.5'D	visual	- see	profile		OK
	9	3.5'S	11:12	11:19	11:19	11:29	10
		12.5'D	visual	- see	profile	(no hard bottom)	OK
	12	13.0'D	visual	- see	profile		OK
	11	13.0'D	visual	- see	profile		OK

REMARKS holes tested as stated

TYPE OF SOIL

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

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME TRENCH WIDTH

INLET DEPTH MAXIMUM BOTTOM DEPTH SQ. FT./BEDROOM

COUNTY #

SOIL PROFILE

0' topsoil

6" pale red brn sa d lm

3' pale red brn sa mica lm

30% sapr sh

0' (2) topsoil

6" pale red org brn sa d lm

5' tan sa mica lm

30%+ sapr sh

0' (3) topsoil

6" br red brn sa d lm

25' pale pk brn sa mica lm

25-30% sapr sh

0'	6"	3'	0'	6"	5'	3'	0'
		5		3		1	
			6		4	2	
					low		

SOIL PROFILE

0' topsoil

6" br red brn sa d lm

3' pale org tan sa mica lm

19%+ sapr sh

0' (6) topsoil

6" br red brn sa d lm

4' med red brn sa mica lm

15-20% sh

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
7-25-06	2	2.5'S	10:31	10:40	10:46	10:49	9
		12.0'D	Visual	- see	profile		OK
	1	12.0'D	Visual	- see	profile		OK
	3	3.0'S	10:35	10:38	10:38	10:45	7
		12.8'D	Visual	- see	profile		OK
	4	13.0'D	Visual	- see	profile		OK
	5	11.0'D	Visual	- see	profile		OK
	6	3.5'S	10:38	10:42	10:42	10:52	10
		13.0'D	Visual	- see	profile		OK

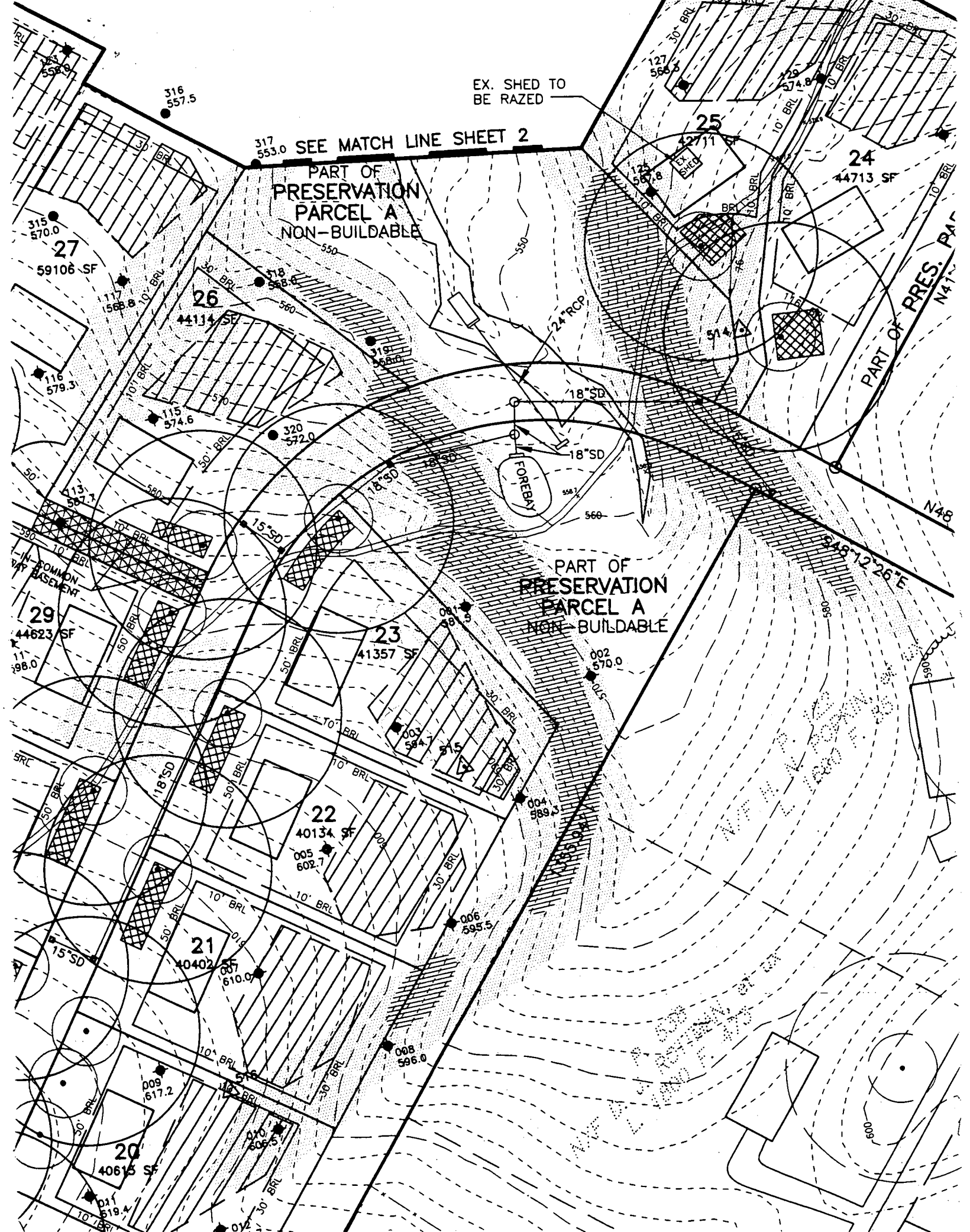
REMARKS: holes tested as stated

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 _____



EX. SHED TO BE RAZED

317 553.0 SEE MATCH LINE SHEET 2

PART OF PRESERVATION PARCEL A NON-BUILDABLE

PART OF PRESERVATION PARCEL A NON-BUILDABLE

FOREBAY

PART OF PRES. PAR. N47°

N48

S46°12'26"E

27 59106 SF

26 44114 SF

25 42717 SF

24 44713 SF

29 44623 SF

23 41357 SF

22 40134 SF

21 40402 SF

20 40615 SF

COMMON VAP BASEMENT

5' BRL

10' BRL

15' SD

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

30' BRL

30' BRL

30' BRL

30' BRL

30' BRL

30' BRL

30' BRL

30' BRL

30' BRL

550

560

570

580

590

600

610

620

630

550

560

570

580

590

600

610

620

630

24 RCP

18' SD

18' SD

18' SD

18' SD

18' SD

18' SD

18' SD

18' SD

30' BRL

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316 557.5

315 570.0

116 579.3

113 577.1

11 598.0

5' BRL

15' SD

10' BRL

316 557.5

317 553.0

117 588.8

115 574.6

001 581.3

005 602.7

007 610.0

009 617.2

011 618.4

318 588.8

319 588.0

320 572.0

003 584.7

004 589.3

006 595.5

008 596.0

010 606.5

319 588.0

320 572.0

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003 584.7

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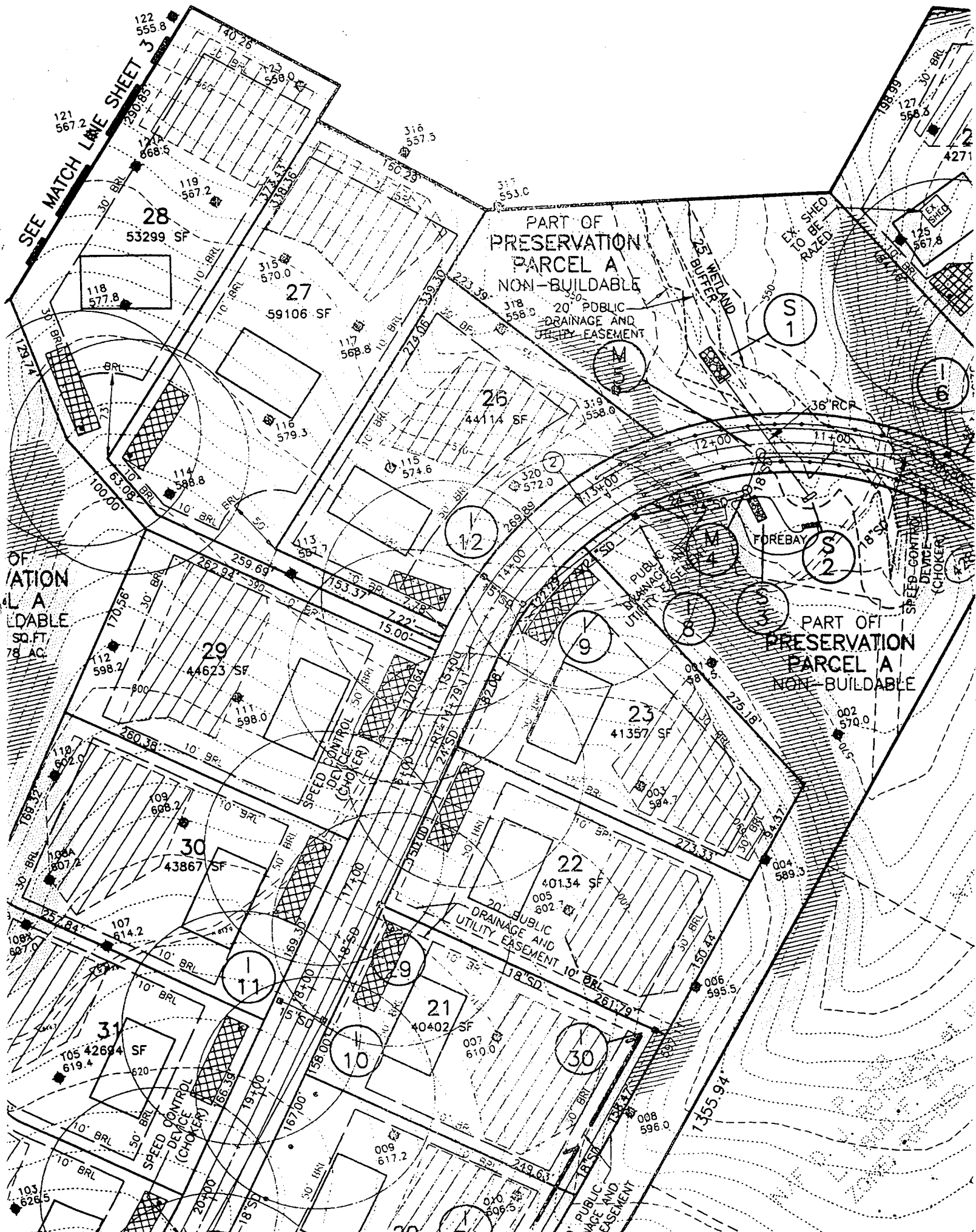
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SEE MATCH LINE SHEET 3



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53299 SF

27
59106 SF

26
44114 SF

29
44623 SF

23
41357 SF

30
43867 SF

22
40134 SF

31
42694 SF

21
40402 SF

121
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118
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315
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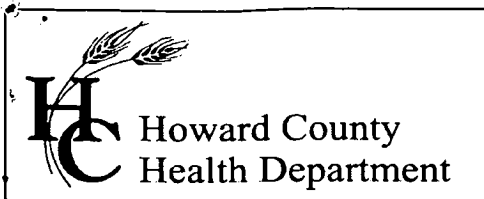
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7178 Columbia Gateway Drive, Columbia Maryland 21046
(410) 313-1771 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

6/20/2005

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

SENT VIA FACSIMILE 410-992-3020

RE: Buckskin Ridge, Lot 23
4269 Buckskin Wood Drive
Ellicott City, MD 21043
BP #: B00149569
Well Permit # HO-94-3159

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 2/24/2005. Final approval of the well line connection to the dwelling was approved on 6/20/2005.**

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-94-3159. 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: 6/16/2005
Date of Well Completion: 10/22/2001

Approving Authority,

Stuart Oster, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

