

1 71815

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.

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

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY

DATE WELL COMPLETED MM DD YY

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER last name first name TOWN SUBDIVISION SECTION LOT

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. Includes handwritten entries: Top Soil, 2in Clay, Brn Rock, Grey Rock, WISSAHICKON, LOCH RAVEN INTERLAYER, 3 Mixed logs.

GROUTING RECORD yes no WELL HAS BEEN GROUTED (Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS NO. OF POUNDS GALLONS OF WATER DEPTH OF GROUT SEAL

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

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

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

SCREEN RECORD screen type or open hole insert appropriate code below [ST] STEEL [BR] BRASS [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER

DEPTH (nearest ft.)

Table with columns: E, A, C, H, S, R, E, E, N. Rows for SLOT SIZE 1, 2, 3 and DIAMETER OF SCREEN (NEAREST INCH) from to

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) PUMPING RATE (gal. per min.) METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING WHEN PUMPING TYPE OF PUMP USED (for test)

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES OR 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) LAND SURFACE (nearest foot)

LATITUDE 39.14370 LONGITUDE 76.94526 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed.

TAG = GEO

B 1	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER
1 2 3 6	87933	572116	HO 70 0221 <small>fill in this form completely</small>

OWNER INFORMATION

Date Received (APA) 08/22/11
8 MM DD YY 13

15 Last Name: Armbruster, Robert + Eileen
Owner First Name: 34

36 Street or RFD: 801 Key Hwy Unit 121
55

57 Town: Baltimore MD 70 State 72 Zip: 21230 76

LOCATION OF WELL

8 COUNTY: Howard 21

23 SUBDIVISION: Beau fort + Estate 42

SECTION: 44 46 LOT: 20 48 50

52 NEAREST TOWN: Fulton 71

DRILLER INFORMATION

Driller's Name: Mike Kohler 76 License No.: M SD 028 81

Firm Name: Allied Well Drilling

Address: P.O. Box 129 Annapolis Junction MD 21401

Signature: Michael Kohler Date: 07/17/12

SOURCES OF DRILLING WATER

1. Public

11 STREET ADDRESS: 12451 Kondrup Dr 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH
 WEST EAST
 SOUTH

34 DISTANCE FROM ROAD 37 ENTER FT OR MI 38 39

TAX MAP: 0045 BLK: PARCEL 004

WELL INFORMATION

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

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

USE FOR WATER (CIRCLE APPROPRIATE BOX)

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22 INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

3 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME: Howard COUNTY NO.: 21

STATE SIGNATURE: [Signature] INSERT S → 41

DATE ISSUED: 08/09/11 43 MM DD YY 48 CO SIGNATURE: [Signature] EXP. DATE: 08/09/12

APPROXIMATE DEPTH OF WELL: 400 FEET (24 28)

APPROXIMATE DIAMETER OF WELL: 6 INCH NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

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

37 CABLE REVerse-ROTary DRive-POINT

other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

39 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

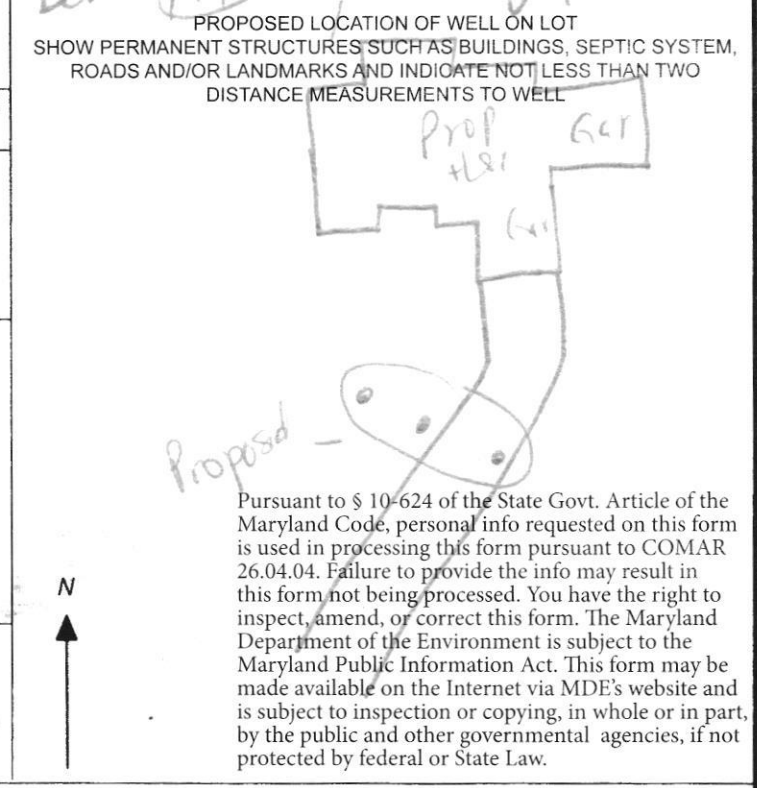
THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 - - - - - 52

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

APPROP. PERMIT NUMBER: - - - - - G - - - - -

PERMIT No. HO 70 0221



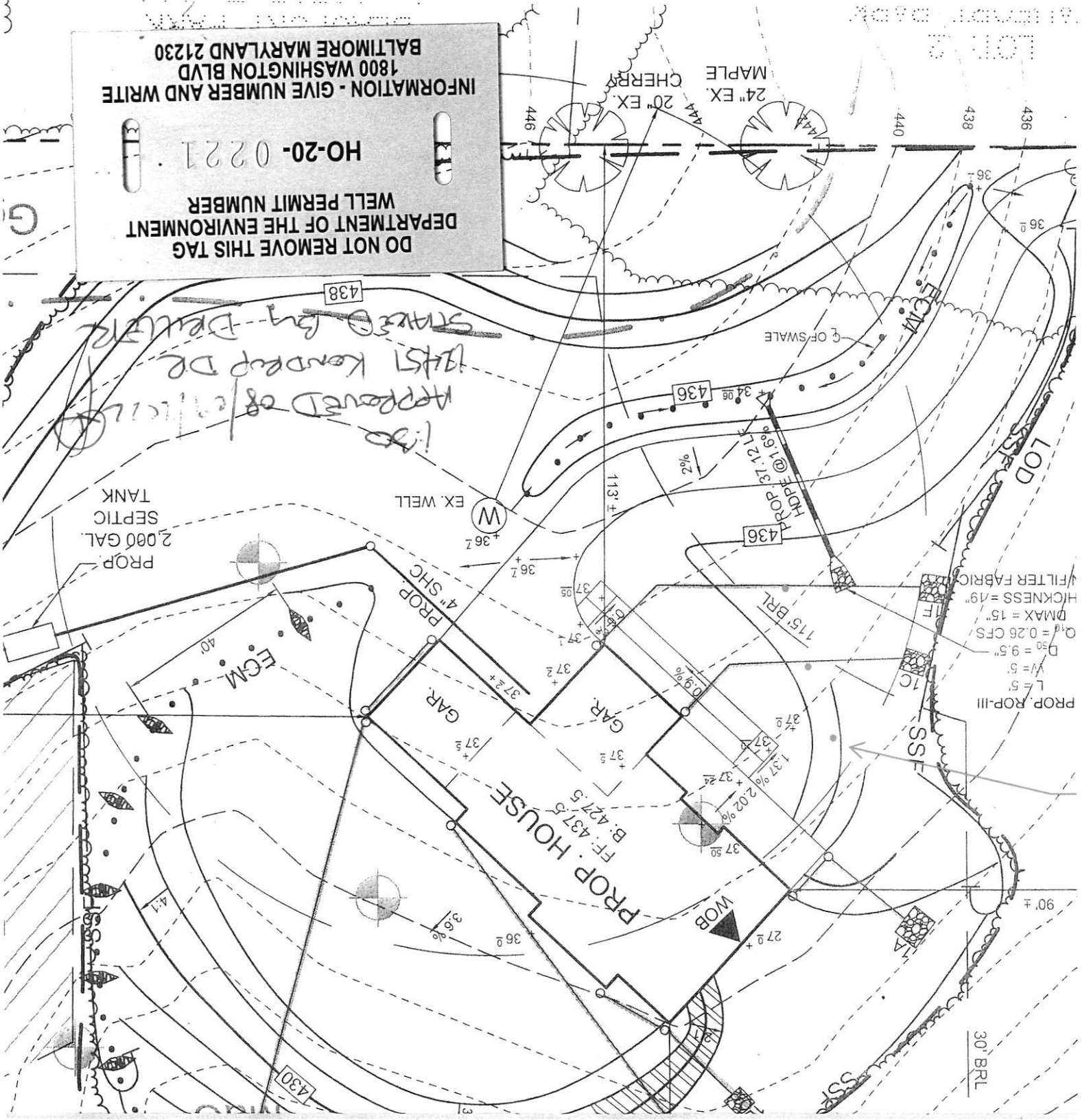
SPECIAL CONDITIONS

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

103 WP-22-05594

INFORMATION - GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER
HO-20-0221



HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.

GRADE

EACH BORE HOLE (TYP.)

MINIMUM

HORIZONTAL BURY
DEPTH 4 FT

FOR CONT.
SEE PLANS

HORIZONTAL
PIPING

BORE DEPTH

GROUT ENTIRE ANNULAR
SPACE AND VERTICAL
U-TUBE WITH (BENTANITE)
GROUT.

DEPTH MARKINGS IN FEET TO
INDICATE DEPTH OF INSERTION

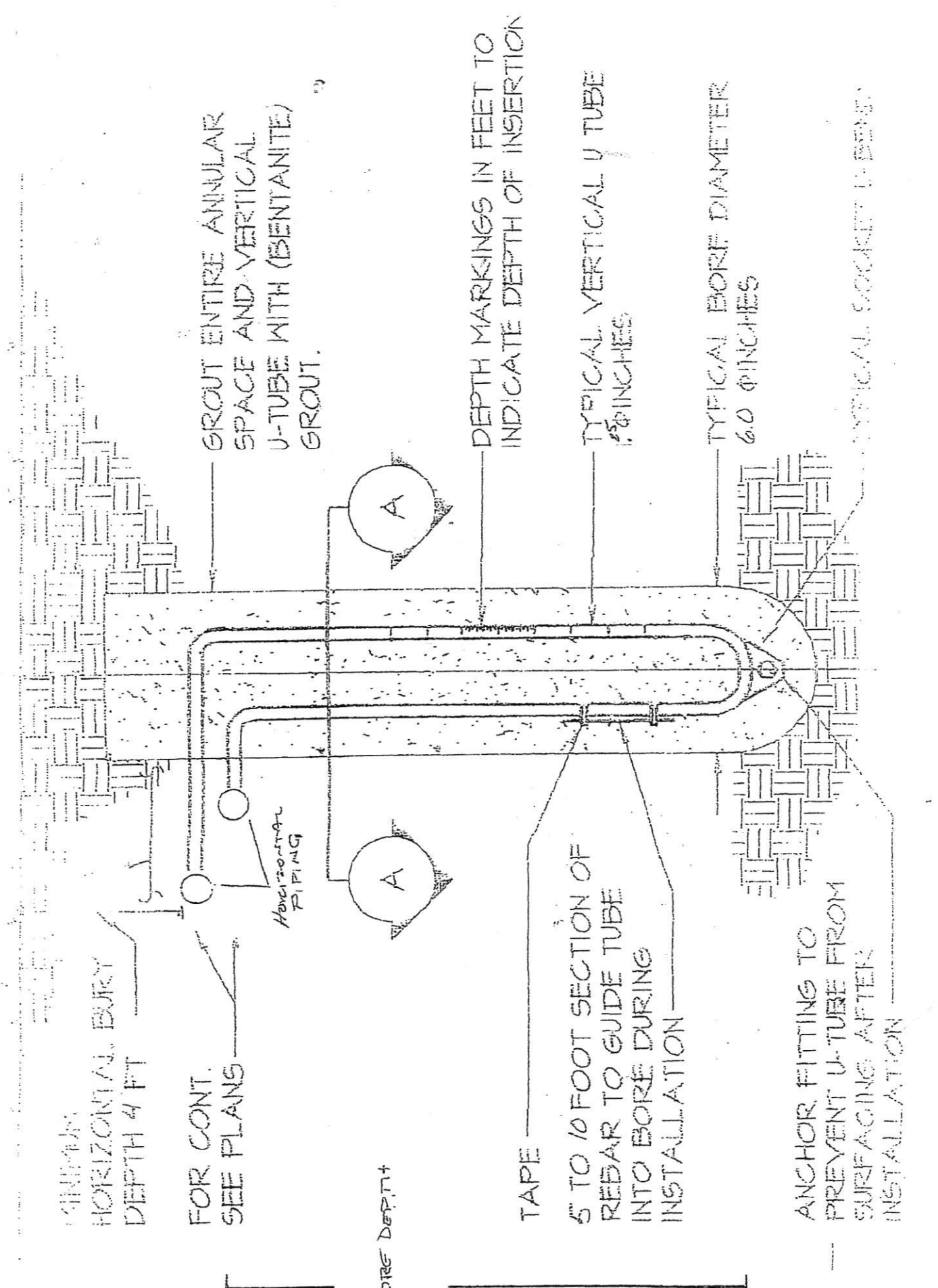
TYPICAL VERTICAL U TUBE
PINCHES

TYPICAL BORE DIAMETER
6.0 PINCHES

TYPICAL SOCKET U-BEND

TAPE
5 TO 10 FOOT SECTION OF
REBAR TO GUIDE TUBE
INTO BORE DURING
INSTALLATION

ANCHOR FITTING TO
PREVENT U-TUBE FROM
SURFACING AFTER
INSTALLATION



OWNER INFORMATION

Date Received (APA) **031490**

TRACY SCHYLTE ASS
 15 Last Name 8 Owner 13 First Name 34

8480 BALTIMORE PIKE
 36 Street or RFD 55

ELLICOTT CITY MD 21043
 57 Town 70 State 72 Zp 76

LOCATION OF WELL

HOWARD
 8 COUNTY 21

BEAUFORT ESTATES
 23 SUBDIVISION 42

SECTION **4** LOT **9**
 44 46 48 50

FULTON
 52 NEAREST TOWN 71

MILES FROM TOWN (enter 0 if in town) **2** MI
 73 76 77 78

DRILLER INFORMATION

Joseph L. Mayne
 77 License No. **238**

Joseph L. Mayne Well Drilling
 Firm Name

5512 Ridge Rd. Mt. Airy Md. 21771
 Address

Joseph L. Mayne **3/13/90**
 Signature Date

B 4

Kondrup Drive
 11 NEAR WHAT ROAD 30

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

250
 34 DISTANCE FROM ROAD 37
 ENTER FT or MI **FT**
 38 39

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 42922**
 COUNTY NAME COUNTY NO.

STATE SIGNATURE _____ INSERT S

DATE ISSUED **051890** **James E. Madigan** **11-18-90**
 43 46 CO SIGNATURE EXP. DATE

NORTH GRID **477000** EAST GRID **0815000**
 50 55 57 63

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

APPROXIMATE DIAMETER OF WELL **6** NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN

AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)

CABLE REVerse-ROTary Drive-POINT

other _____

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- WELL**
-
-

WRITE THE BOX NUMBER FROM THE MAP HERE

818
470

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

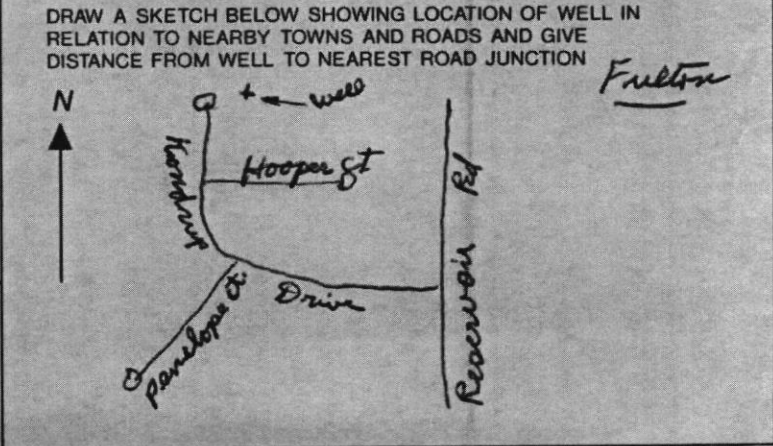
THIS WELL WILL NOT REPLACE AN EXISTING WELL

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

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 (OEP USE ONLY)

APPROP. PERMIT NUMBER _____ **G A P** _____
 54 63

FORCE **JW** WRITE INITIALS IN BOX PERMIT No. **40-08-1353**
 67 68 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

C1 1582 SEQUENCE NO. (DENV USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE PRINT OR TYPE

45 DAYS AFTER WELL IS COMPLETED.

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

COUNTY NUMBER A 42922

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED 060890

Depth of Well 305 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-88-1353

OWNER Tracy Schulte Assoc. last name Kondrup Drive first name TOWN Fulton SUBDIVISION Beaufort Estates SECTION 4 LOT 9 20?

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 SAND (0-45) and GRAY MICHA ROCK (45-309).

GROUTING RECORD WELL HAS BEEN GROUTED (Y) TYPE OF GROUTING MATERIAL CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 12 NO. OF POUNDS 1125

CASING RECORD MAIN CASING TYPE (SH) Nominal diameter (6) Total depth (50)

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

SCREEN RECORD screen type or open hole (H) insert appropriate code below

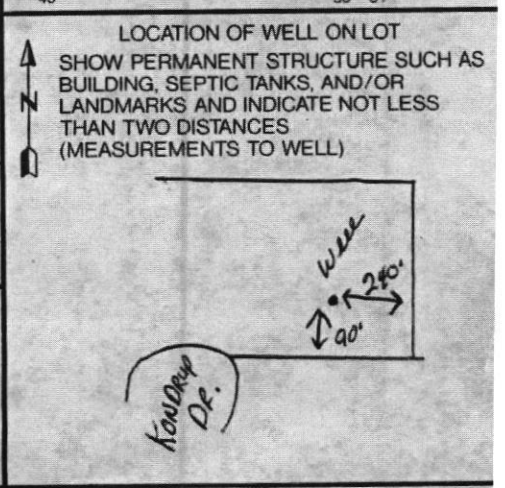
DEPTH (nearest ft.) 48 305 SLOT SIZE DIAMETER OF SCREEN

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

OEP USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

PUMPING TEST HOURS PUMPED (3) PUMPING RATE (4) METHOD USED TO MEASURE PUMPING RATE (Bucket) WATER LEVEL (30) WHEN PUMPING (22)

PUMP INSTALLED DRILLER WILL INSTALL PUMP (NO) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX - SEE ABOVE: CAPACITY: GALLONS PER MINUTE



CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION"

DRILLERS IDENT. NO. 238 DRILLERS SIGNATURE (Must match signature on application) SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Maura J. Rossman, M.D., Health Officer

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

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

Company Name: Fogles Well Pump & Water Treatment, LLC Telephone #: 410 795 1535
Address: PO Box 63
Woodbine, MD 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): David C Foale License#: MSD226

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

Name of Property Owner: Cairn Custom Homes Telephone #: _____
Subdivision: _____ Lot #: _____ Well Tag #: HO-89-1353 ✓
Site Address: 12451 Kondrup Dr
Fulton, MD 20759

Submersible Pump Data
Make: Goulds
Model #: 74507422
Pump Capacity: 7
Well Yield: 4

Pitless Adapter
Make: Ampbell +
Model#: NA
GPM Depth: 36" (36" min)
GPM NSF/WSC approved: YS

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

Depth of well encountered at time of pump installation: 305 (feet)
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

Piping to house
Type: 1" poly pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection
PVC sleeve to undisturbed soil at wall penetration: YS
Length of sleeve (5' minimum from foundation): 6'
Sleeve sealed properly: YS

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

Signature of company representative responsible for installation: [Signature] date: 7/22/22

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

Date Insp. Requested:	<u>7/22/22</u>	Date Insp. Approved:	<u>7/22/22</u>	Inspector:	<u>RR</u>
Inspection Data:	Pitless adapter watertight & water supply line at least 36" below grade				<input checked="" type="checkbox"/>
	Two piece cap installed and attached to casing securely				<input checked="" type="checkbox"/>
	Elec. conduit extends at least 18" below grade/attached to cap properly				<input checked="" type="checkbox"/>
	Safety rope not outside of well cap/casing				<input checked="" type="checkbox"/>
	Correct well tag attached properly and casing 8" above finished grade				<input checked="" type="checkbox"/>
	Water supply line sleeved adequately at house connection				<input checked="" type="checkbox"/>
	Adequate grout observed below pitless adapter				<input checked="" type="checkbox"/>

(Revised form 10/24/2018)



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

Maura J. Rossman, M.D., Health Officer

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JULY 17, 2023

January 17, 2023

Homeowner
12451 Kondrup Drive
Fulton, MD 20759

**RE: Beaufort Estates, Lot 20
12451 Kondrup Dr.
Building Permit: B21004043
Well Permit: HO-88-1353**

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **1/11/2023**. Final approval of the well line connection to the dwelling was granted on **7/22/2022**. The well construction was completed on **6/8/1990**. Water samples were collected on **1/9/2023**.

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. 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-88-1353. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

Maura J. Rossman, M.D., Health Officer

In closing, please refer to our "Homeowner Fact Sheet" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 156644 Account #: 1933
Reference: Carin Custom Homes Client: Fogle's Well Pump & Treatment
Location: 12451 Kondrup Drive Requested By: Dave Fogle
Fulton, MD 20759 Source: Well Water
Date/ Time Collected: 1/9/2023 0930 Site: Pressure Tank
Date/Time Rec'd: 1/9/2023 1150 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.5
Collected By: J. Evans 0309JE Well #: HO-88-1353

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/10/2023 / 0830 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/10/2023 / 0830 / TSD
Nitrate.	2.61	mg/L	10	EPA 300.0	1/9/2023 / 1544 / TSD
Turbidity	1.96	NTU	<10	SM2130B	1/10/2023 / 0920 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	1/9/2023 / 1605 / MEW

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 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sample collected by client, analyzed as received
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

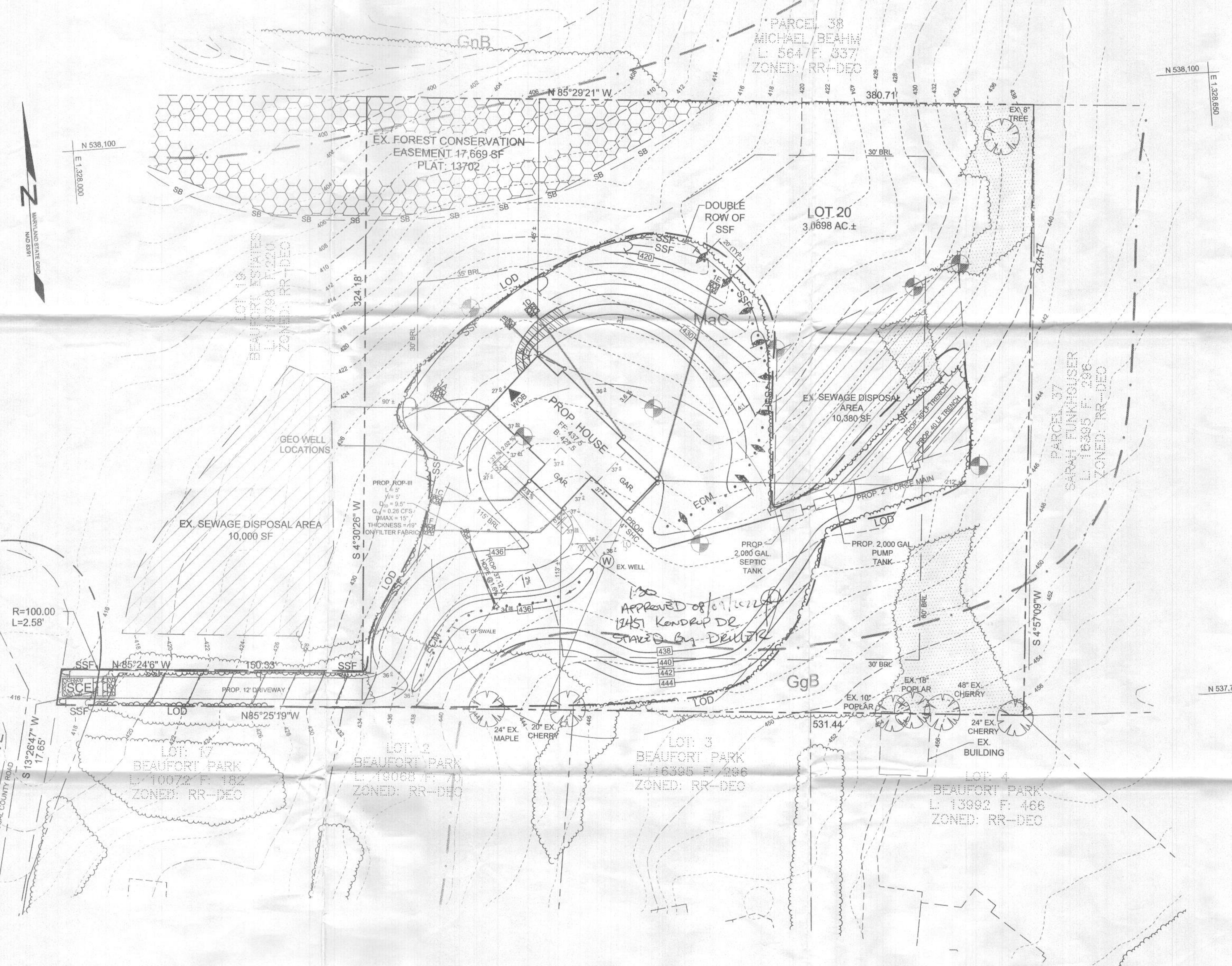
Reason for Test : Use & Occupancy

Building Permit # : 21004043

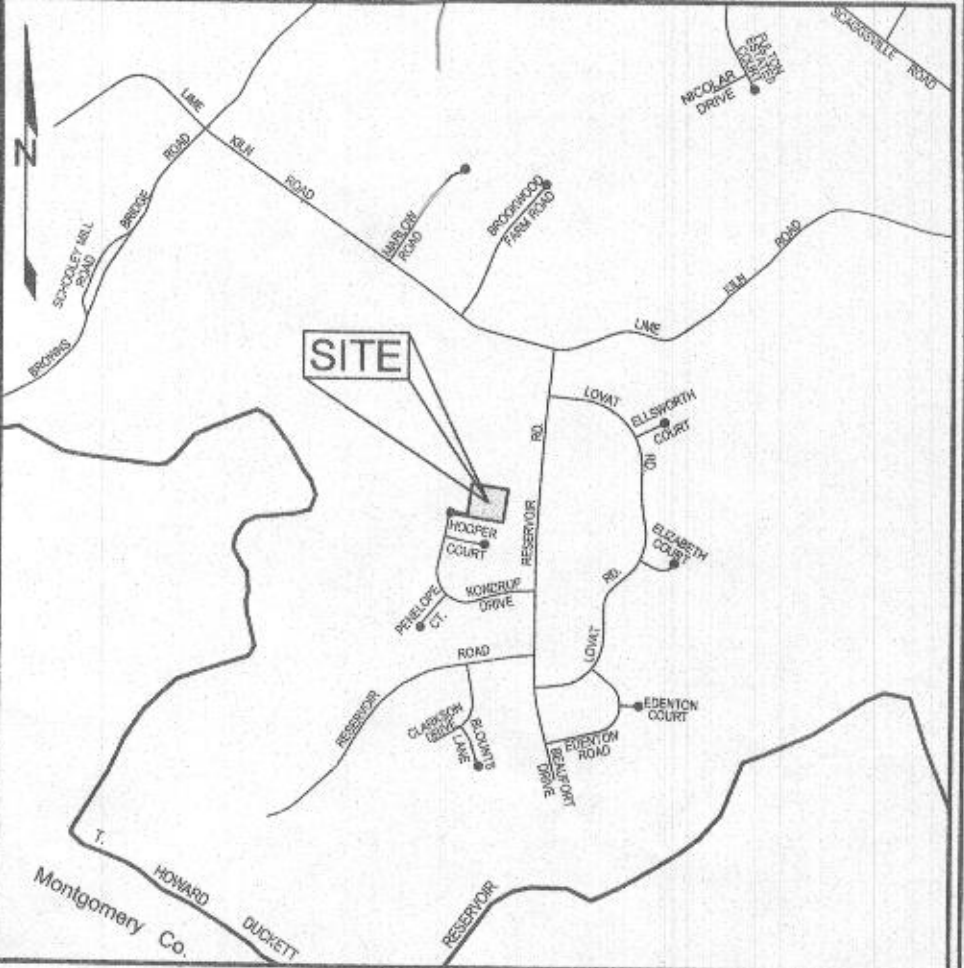
Date Reported: 1/10/2023

SOILS LEGEND			
SYMBOL	NAME / DESCRIPTION	GROUP	K' FACTOR
MaC	MANOR LOAM, 8 TO 15 PERCENT SLOPES	B	0.28
GgB	GLENELG LOAM, 2 TO 8 PERCENT SLOPES	B	0.24
GnB	GLENVILLE-BAILE SILT LOAMS, 0 TO 8 PERCENT SLOPES	C	0.43

NOTES:
 1) SOIL INFORMATION HAS BEEN TAKEN FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE, WEB SOIL SURVEY.
 2) HIGHLY ERODIBLE SOILS ARE THOSE SOILS WITH A SLOPE GREATER THAN 15 PERCENT OR THOSE SOILS WITH A SOIL ERODIBILITY FACTOR 'K' GREATER THAN 0.35 AND WITH A SLOPE GREATER THAN 5 PERCENT.



LEGEND	
EXISTING CONTOUR (GIS)	---
EXISTING CONTOUR (Field Run)	---
PROPOSED CONTOUR	---
EXISTING SPOT ELEVATION	+
PROPOSED SPOT ELEVATION	+
DIRECTION OF FLOW	→
EXISTING TREELINE	---
PROPOSED TREELINE	---
STABILIZED CONSTRUCTION ENTRANCE	---
SILT FENCE	SS
SUPER SILT FENCE	SSF
LIMIT OF DISTURBANCE	LOD
SOIL BOUNDARY	---
EROSION CONTROL MATTING	ECM
TEMPORARY SOIL STABILIZATION MATTING 2.00 lb/s SHEER STRESS	---
EXISTING PERCOLATION TEST: PASSED	+
TREE CLEARING COVERED BY TREE CANNOPY	---
PROPOSED TEMPORARY CHECK DAM	---



- ### GENERAL NOTES
- SUBJECT PROPERTY ZONED RC-DEO PER 10/06/13 COMPREHENSIVE ZONING PLAN.
 - TOTAL AREA OF LOT = 3.0698 AC ±
 - PRIVATE WATER AND PRIVATE SEWER WILL BE USED WITHIN THIS SITE.
 - THIS AREA DESIGNATES A PRIVATE SEWER AREA, OF AT LEAST 10,000 SF AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL (COMAR 26.04.03). IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.
 - ALL EXISTING WELLS, SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND ALL EXISTING AND PROPOSED WELLS THAT ARE LOCATED WITHIN 200 FEET DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS AND SEWAGE DISPOSAL AREAS HAVE BEEN FIELD LOCATED.
 - DEED REFERENCE: LIBER 6763, FOLIO 421
 - PROPERTY ADDRESS: 12451 KONDROP DRIVE, FULTON MARYLAND 20759
 - THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD RUN SURVEY PERFORMED BY SHANBERGER & LANE IN MAY 2021
 - THE TOPOGRAPHY SHOWN HEREON IS AT TWO FOOT INTERVALS AND IS BASED ON A FIELD RUN TOPOGRAPHY SURVEY PREPARED BY SHANBERGER & LANE IN MAY 2021 OFFSITE TOPOGRAPHY IS BASED ON HOWARD COUNTY AERIAL TOPOGRAPHY FLOWN IN 2004.
 - THE SOILS SHOWN HAVE BEEN TAKEN FROM THE NRCS WEB SOIL SURVEY WEBSITE.
 - TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO HISTORIC STRUCTURES OR CEMETERIES WITHIN THE PROJECT BOUNDARY.
 - THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
 - THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM OWNERSHIP, WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
 - ENVIRONMENT FEATURES HAVE BEEN SHOWN PER F-99-29
 - EXISTING UTILITIES ARE LOCATED BY THE USE OF ANY OR ALL OF THE FOLLOWING: ROAD CONSTRUCTION PLANS, FIELD SURVEYS, PUBLIC WATER AND SEWER LINES AND OTHER AVAILABLE RECORD DRAWINGS. APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY.
 - FOREST CONSERVATION OBLIGATIONS HAVE BEEN ADDRESSED ON F-99-29
 - DRIVEWAY(S) SHALL BE PROVIDED PRIOR TO ISSUANCE OF AN USE AND OCCUPANCY PERMIT FOR ANY NEW DWELLINGS TO ENSURE SAFE ACCESS FOR FIRE AND EMERGENCY VEHICLES FOR THE FOLLOWING REQUIREMENTS:
 - WIDTH - 12 FEET (16 FEET SERVING MORE THAN ONE RESIDENCE)
 - SURFACE - SIX (6) INCHES OF COMPACTED CRUSHER RUN BASE WITH TAR AND CHIP COATING (1-1/2" MINIMUM)
 - GEOMETRY - MAXIMUM 15% GRADE, MAXIMUM 10% GRADE CHANGE AND 45-FOOT TURNING RADIUS
 - STRUCTURES (CULVERTS/BRIDGES) - CAPABLE OF SUPPORTING 25 GROSS TONS (H25-LOADING)
 - DRAINAGE ELEMENTS - CAPABLE OF SAFELY PASSING 100 YEAR FLOOD WITH NO MORE THAN 1 FOOT DEPTH OVER DRIVEWAY SURFACE
 - MAINTENANCE - SUFFICIENT TO ENSURE ALL WEATHER USE
 - DRIVEWAY ENTRANCES TO BE PER HOWARD COUNTY STANDARD DETAIL R-6.05 FOR DRIVEWAY LOTS.
 - NO GRADING, REMOVAL OF VEGETATIVE COVER OR TREES, PAVING AND NEW STRUCTURES SHALL BE PERMITTED WITHIN THE LIMITS OF WETLANDS, STREAMS, OR THEIR REQUIRED BUFFERS, FLOODPLAIN AND FOREST CONSERVATION EASEMENT AREAS, UNLESS ALTERNATIVE COMPLIANCE HAVE BEEN APPROVED OR ACTIVITIES HAVE BEEN DETERMINED ESSENTIAL BY THE DEPARTMENT OF PLANNING AND ZONING.
 - THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 16.124 OF THE HOWARD COUNTY CODE AND THE LANDSCAPE MANUAL. NO FINANCIAL SURETY REQUIRED AS CREDIT IS BEING TAKEN FOR EXISTING PERIMETER TREES.

SHEET INDEX	
SHEET NO.	DESCRIPTION
1	GRADING, SEDIMENT & EROSION CONTROL PLAN
2	SEDIMENT AND EROSION CONTROL NOTES AND DETAILS
3	SEDIMENT AND EROSION CONTROL DETAILS
4	STORMWATER MANAGEMENT PLAN & DRAINAGE AREA MAP

GRADING, SEDIMENT & EROSION CONTROL PLAN
BEAUFORT ESTATES, LOT 20
 12451 KONDROP DRIVE
 TAX MAP 45 GRID 6 5TH ELECTION DISTRICT PARCEL 14 HOWARD COUNTY, MARYLAND

OWNER
 C2M LLC
 12456 KONDROP DRIVE
 FULTON, MARYLAND 20759

DEVELOPER
 CAIRN CUSTOM HOMES
 10548 GORMAN ROAD
 LAUREL, MARYLAND 20723

SILL ENGINEERING GROUP, LLC
 16005 Frederick Road, 2nd Floor
 Woodbine, Maryland 21797
 Phone: 443.325.5076
 Fax: 410.696.2022
 Email: info@sillengineering.com
 Civil Engineering for Land Development

DESIGN BY: PS
 DRAWN BY: S2S
 CHECKED BY: PS
 SCALE: AS SHOWN
 DATE: JANUARY 24, 2022
 PROJECT #: 21-024
 SHEET #: 1 of 4

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

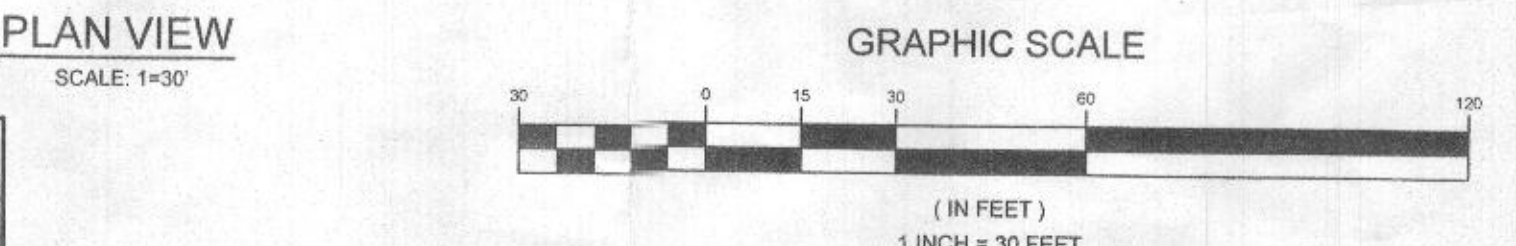
ENGINEERS CERTIFICATE
 I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN FOR SEDIMENT AND EROSION CONTROL, AND THAT ALL 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.

HOWARD SCD
 DATE: 01/24/22

PAUL M. SILL, P.E.
 DATE: 1/24/22

M. Deum
 SIGNATURE OF DEVELOPER
 DATE: 1.24.22



PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 32023, EXPIRATION DATE JUNE 20, 2023