

C1 41866

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 566370

ST/CO USE ONLY DATE Received MM DD 05 29 20

DATE WELL COMPLETED MM DD YY 5-27-20

APPROVED 06/22/2020

Depth of Well 365 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-18-0198

OWNER: Mifflin Thomas; WELL SITE ADDRESS: 3220 Ridgeley; TOWN: West Friendship, MD; SUBDIVISION: Kings Mount; SECTION: ; LOT: 12

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Clay, sandstone, and Micro Rock.

GROUTING RECORD form including fields for GROUTED (Y), TYPE OF MATERIAL (CM, BC), NO. OF BAGS (14), NO. OF POUNDS (1225), GALLONS OF WATER (84), DEPTH OF GROUT SEAL (0 to 46 ft).

CASING RECORD form including fields for MAIN CASING TYPE (ST), Nominal diameter (6 inch), Total depth (48 ft).

OTHER CASING (if used) form with fields for diameter and depth.

SCREEN RECORD form including fields for screen type (ST, BR, HO) and slot size (1, 2, 3).

PUMPING TEST form including fields for HOURS PUMPED (3), PUMPING RATE (10), METHOD USED (Bucket), WATER LEVEL (40 ft before, 176 ft when pumping), TYPE OF PUMP USED (S).

PUMP INSTALLED form including fields for DRILLER INSTALLED PUMP (NO), TYPE OF PUMP INSTALLED (29), CAPACITY (31-35 gallons per minute), PUMP HORSE POWER (37-41), PUMP COLUMN LENGTH (43-47), CASING HEIGHT (49).

NUMBER OF UNSUCCESSFUL WELLS: 0; WELL HYDROFRACTURED: Y

- CIRCLE APPROPRIATE LETTER: A (Well abandoned), E (Electric log), P (Well converted to production)

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.: M 5D027; DRILLERS SIGNATURE: [Signature]; LIC. NO.: D

DEPTH (nearest ft.) table with columns for depth intervals (1-11, 15-17, 21-23, 24-26, 30-32, 36-38, 39-41, 45-47, 51-53) and corresponding casing diameters.

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.28075; LONGITUDE 76.97466; (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.

B 1 64942

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL Side 370 please type

STATE PERMIT NUMBER Ho-18-0198 fill in this form completely

OWNER INFORMATION McKeever, Jr. J. Thomas 3220 Regents Row West Friendship Md 21794

LOCATION OF WELL Howard Kings Grant West Friendship

DRILLER INFORMATION Larry Mayne M S D 027 Joseph L Mayne Well Drilling 5312 Ridge Rd Mt Airy Md 21771

SOURCES OF DRILLING WATER 1. well 2. 5/27/20 3. 10 GPM 14 bags cement 40' static 176' level 330' pump

3220 Regents Row ON WHICH SIDE OF ROAD DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 22 BLK: PARCEL 7

WELL INFORMATION APPROX. PUMPING RATE 5 GAL. PER MIN. AVERAGE DAILY QUANTITY NEEDED 500 GAL. PER DAY

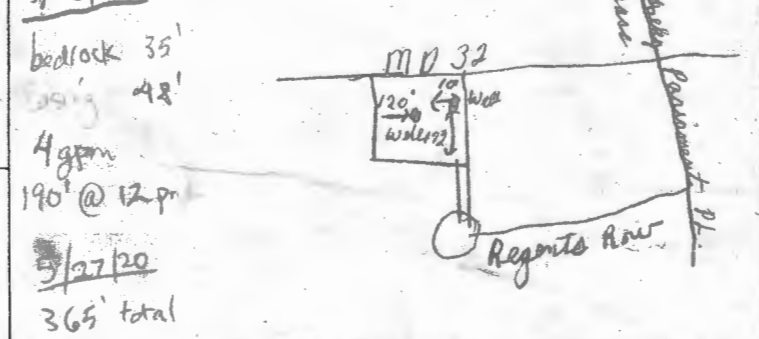
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard 13 STATE SIGNATURE DATE ISSUED 05/13/20 CO SIGNATURE EXP/DATE

USE FOR WATER (CIRCLE APPROPRIATE BOX) DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 INCH

PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

METHOD OF DRILLING (circle one) BORED (or Augered) AIR-ROTARY JETTED & DRIVEN ROTARY (Hydraulic Rotary) DRIVE-POINT



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

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.

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER PERMIT No. Ho-18-0198

SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED



**HOWARD COUNTY
HEALTH DEPARTMENT**

ATTN: Kevin Wolfe

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

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: ZEPP Plg. Telephone #: 410-531-6712
Address: 5820 CLARKSVILLE SQ. DR.
CLARKSVILLE MD 21029

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): ED ZEPP IV License# 7021 MD ST.

*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: Tom McKeever Telephone #: 410-489-7346, 443-803-8892 (C)
Subdivision: _____ Lot #: _____ Well Tag #: HO-18-0198 ✓
Site Address: 3220 Regent's Row
West Friendship, MD 21794

Submersible Pump Data

Make: BOULDS
Model #: 5HCO7422C
Pump Capacity: 5 gpm
Well Yield: 10 gpm

Pitless Adapter

Make: BIH +
Model#: P100 SS
GPM Depth: 40" (36" min)
GPM NSF/WSC approved: ✓

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: _____ (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 ✓

Piping to house

Type: 1" poly
PSI: 160 (160 psi min)
Depth of supply line: 40" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: ✓
Length of sleeve (5' minimum from foundation): 6 ft.
Sleeve sealed properly: ✓

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.

Edgar W. Zepp IV 6/17/20
Signature of company representative responsible for installation date

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

Date Insp. Requested: 6/18/20 Date Insp. Approved: _____ Inspector: RR
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade not observed
Two piece cap installed and attached to casing securely ✓
Elec. conduit extends at least 18" below grade/attached to cap properly not observed
Safety rope not outside of well cap/casing ✓
Correct well tag attached properly and casing 8" above finished grade ✓
Water supply line sleeved adequately at house connection not observed
Adequate grout observed below pitless adapter not observed

(Revised form 10/24/2018)



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well, please indicate one of the following:

Well Site Location:

<u>Kings Grant</u>	<u>12</u>	<u>3220 Regents Row</u>
Subdivision/Property Name	Lot #	Road Name

The well site, as shown on the attached well site plan, has been staked by

Fisher, Collins & Carter, Inc.

(professional land surveyor or company employing professional land surveyors)

on 4/3/2020
(date)

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.



Mark L. Robel
5/06/20

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

MEMORANDUM

June 23, 2020

RE: **Replacement Well Sampling**
Mr. Thomas McKeever
3220 Regents Row
West Friendship, MD 21794
Well Permit # HO-18-0198

57

Dear Mr. Thomas McKeever:

According to our records, your replacement well has been in use to the dwelling. We request that you contact the Community Hygiene Program at (410) 313-1773 to schedule initial water sampling for the above referenced replacement well, as required by the Maryland Well Construction Regulation (COMAR 26.04.04). This sampling includes testing for bacteria, nitrates, turbidity, and sand.

It is preferred that the sample be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment.

If sampling has already been performed by an outside lab, please help us by forwarding the results of the samples to our office. If you have any further questions, you can call me at 410-313-2643. Otherwise, call Community Hygiene at 410-313-1773 to schedule or arrange for them to collect the subsequent water samples.

In addition, your old existing well at 3220 Regents Row will need to be sealed according to COMAR 23.04.04.11 by a licensed well driller.

If you have any questions, or would like to discuss these matters further please call me at (410) 313-6287. Thank you for your attention to these important matters.

Respectfully,



Susan Thomas
Environmental Health Specialist
Howard County Health Department
Well and Septic Program

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

Approved
 8/14/2020 (S)

DATE WELL ABANDONED: 6-22-20 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

140-81-2755

* PERMIT NUMBER OF REPLACEMENT WELL:

H0-18-0198

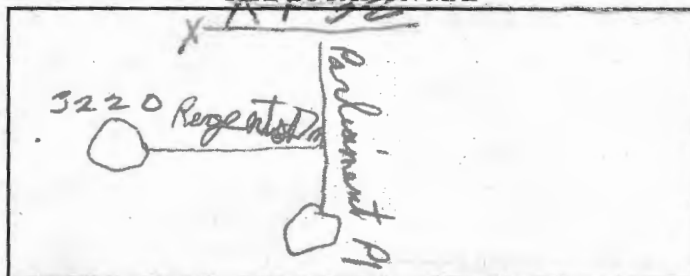
* PERSON ABANDONING WELL: Larry Mays WELL DRILLER'S LICENSE NUMBER: MB0027

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Thomas J McKeever Jr.

SITE LOCATION MAP

* WELL LOCATION:
 COUNTY: Hagerston
 NEAREST TOWN: West Friendship, Md.
 TAX MAP _____ BLOCK _____ PARCELS _____
 SUBDIVISION: Kings Crown
 SECTION: _____ LOT: 12
 STREET ADDRESS: 3220 Regatta Row



LATITUDE 39.28168

LONGITUDE 76.97501

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Cement</u>	<u>0</u>	<u>24</u>

* TYPE OF WELL BEING ABANDONED:
 DRILLED JETTED
 BORED HAND DUG
 OTHER (specify) _____

* USE CODE:
 DOMESTIC MUNICIPAL/PUBLIC
 IRRIGATION INDUSTRIAL
 TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:
 STEEL PLASTIC
 CONCRETE OTHER (specify) _____

VOLUME OF MATERIAL USED

45 Bags Cement 4240 pounds

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 240 FEET DEEP

WAS ANY CASING REMOVED? YES NO
 If yes, length removed, in feet: 2

WAS CASING RIPPED OR PERFORATED? YES NO

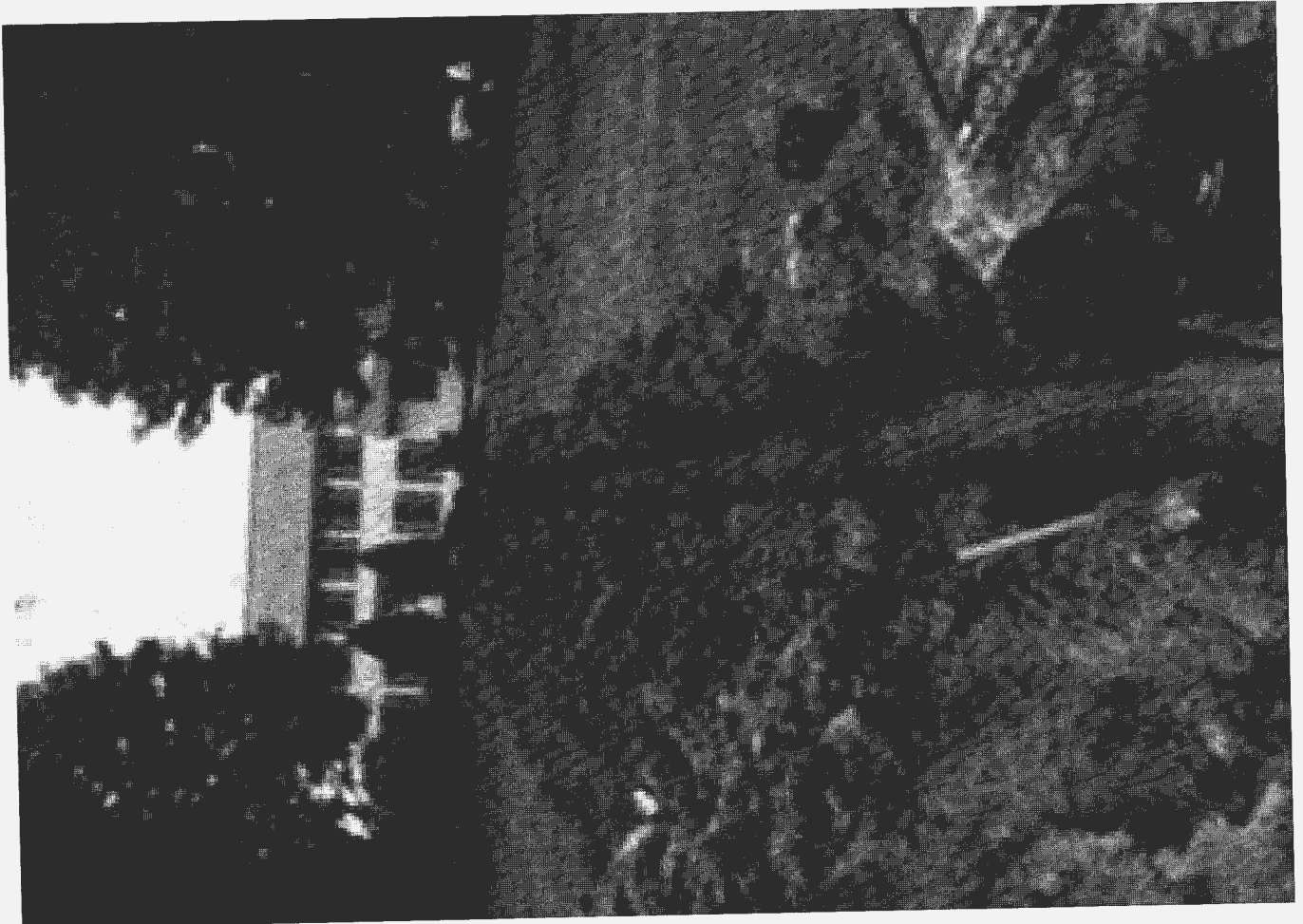
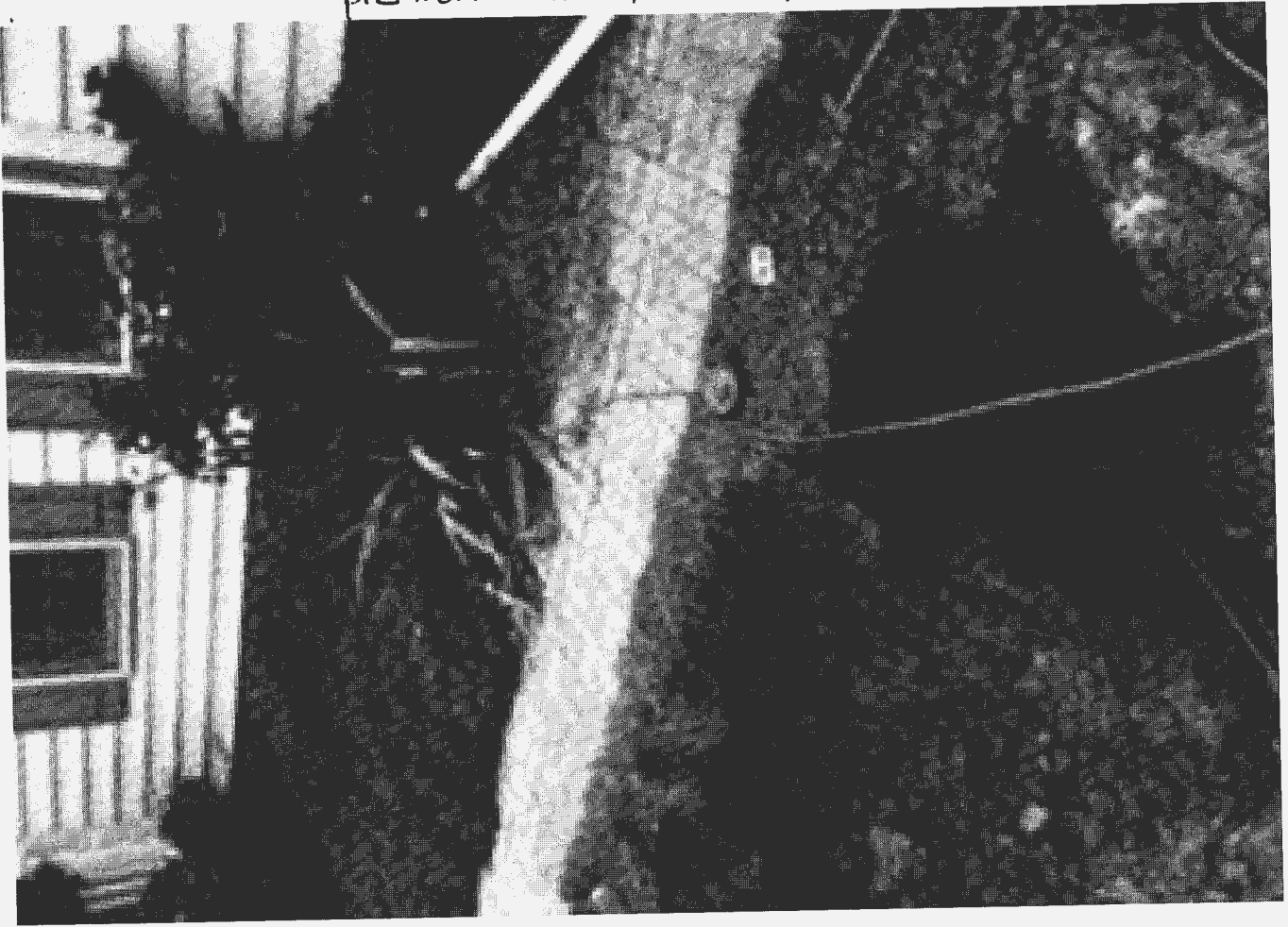
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#
Larry Mays

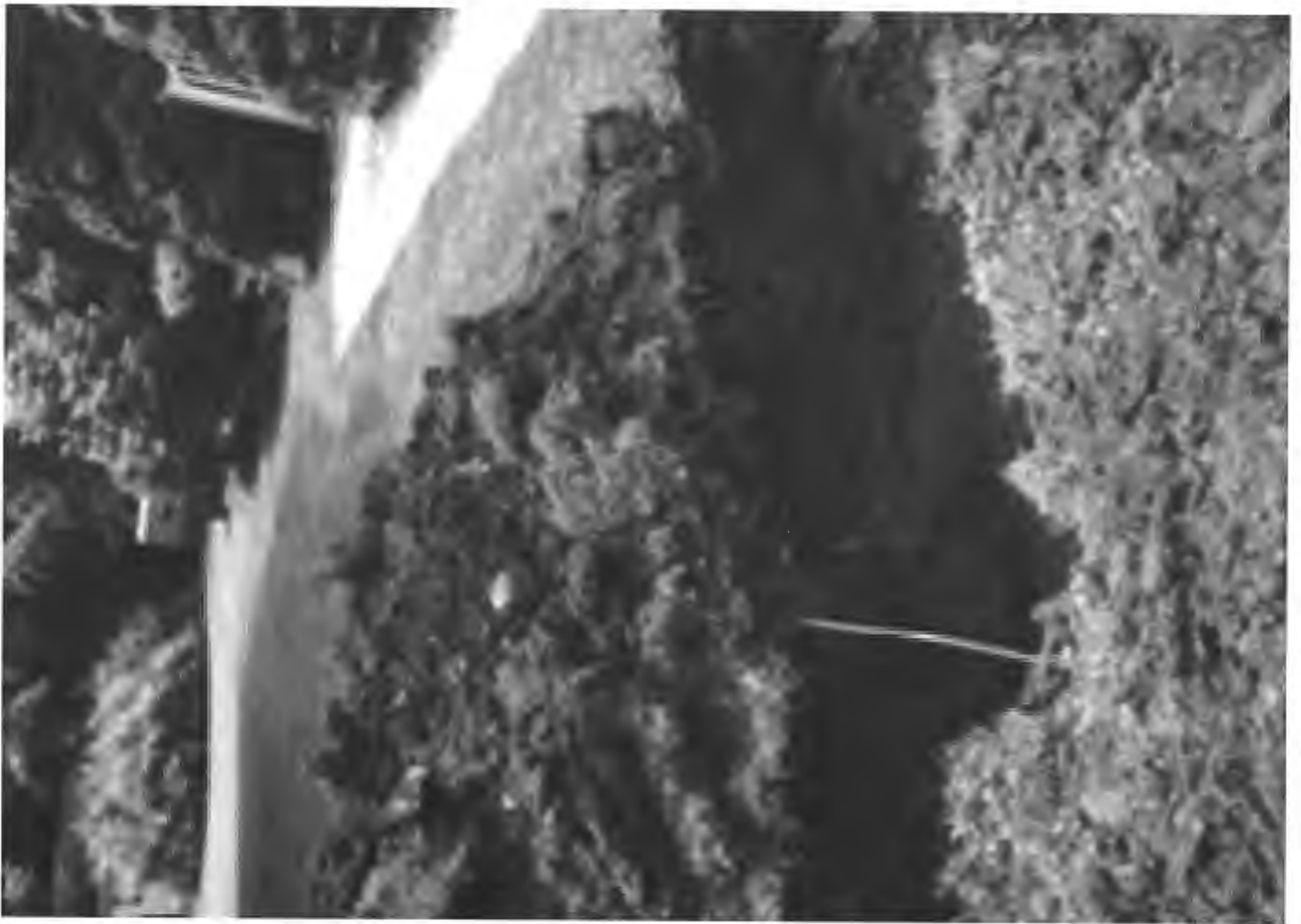
027 MWD / MSD / MGS
 CIRCLE ONE

6-22-20
 DATE

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. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.

pic from contractor 4/18/20











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

January 30, 2020

Thomas and Christine McKeever
3220 Regents Row
West Friendship, MD 21794

Re: Replacement Well Permit Application review and comments

Dear Mr. & Mrs. McKeever,

After meeting with you today at our office in review of the submitted replacement well permit application, we have discussed what is needed to proceed with full review to process your permit. A complete well site plan to scale (1:30 – 1:50) shall be submitted to our office that includes the following information but not limited to:

- Need the existing field located well
- Need to show the existing house location
- Need to show the existing septic system, including the approved Sewage Disposal Area (SDA)
- Need a proposed well replacement location that meets all current well setbacks indicated in Code of Maryland Regulations COMAR 26.04.04
- Identification of the existing property boundaries, existing right-of-way's (row), proposed new property boundaries, new row's., storm water management, etc...
- Current topography and newly proposed changes to topography that may affect your property

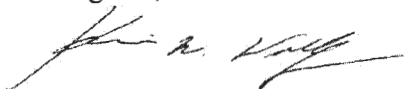
Here is a link to your property file that may help you with the site plan design.

http://hcenvhealthinfo.org/hcenvapp_2/index.php/file-search/7806-WS_REGENTS_ROW_3220_03-313875?highlight=WzMyMjBd

This is located on our website www.howardcountymd.gov

If you have any further questions on the matter please do not hesitate to contact me at 410-313-2645 or kwolf@howardcountymd.gov

Best regards,



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

Cc: file

Wolf, Kevin

From: Wolf, Kevin
Sent: Thursday, January 23, 2020 9:56 AM
To: clease@mdot.maryland.gov; bjsmith@wagman.com; llambert@mdot.maryland.gov
Cc: Cabahug, Joseph
Subject: RE: HO756 - McKeever
Attachments: MD 32 Plan Sheets-FIO_20.pdf

Craig,

This plan does not show the row to be taken up by the 32 expansion. Also missing from this plan:

- Need existing field located well
- Need existing located septic system, including approved Sewage Disposal Area (SDA)
- Need existing house location
- Need a proposed well replacement location that meets current well setbacks per COMAR 26.04.04

Here is a link to the entire property file including the approved SDA. [http://hcenvhealthinfo.org/hcenvapp_2/index.php/file-search/7806-WS REGENTS ROW 3220 03-313875/file](http://hcenvhealthinfo.org/hcenvapp_2/index.php/file-search/7806-WS%20REGENTS%20ROW%203220%2003-313875/file) We are trying to avoid future plans revisions for this homeowner if possible but the site plan that we need to approve to release the well permit must have the above at a minimum. PDF's are fine for now.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



kwolf@howardcountymd.gov

CONFIDENTIALITY NOTICE

This message and the accompanying documents are intended only for the use of the individual or entity to which they are addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this email is not the intended recipient, you are hereby notified that you are strictly prohibited from reading, disseminating, distributing, or copying this communication. If you have received this email in error, please notify the sender immediately and destroy the original transmission.

From: Craig Lease <CLease@mdot.maryland.gov>
Sent: Wednesday, January 22, 2020 2:05 PM
To: Cabahug, Joseph <jcabahug@howardcountymd.gov>
Subject: FW: HO756 - McKeever

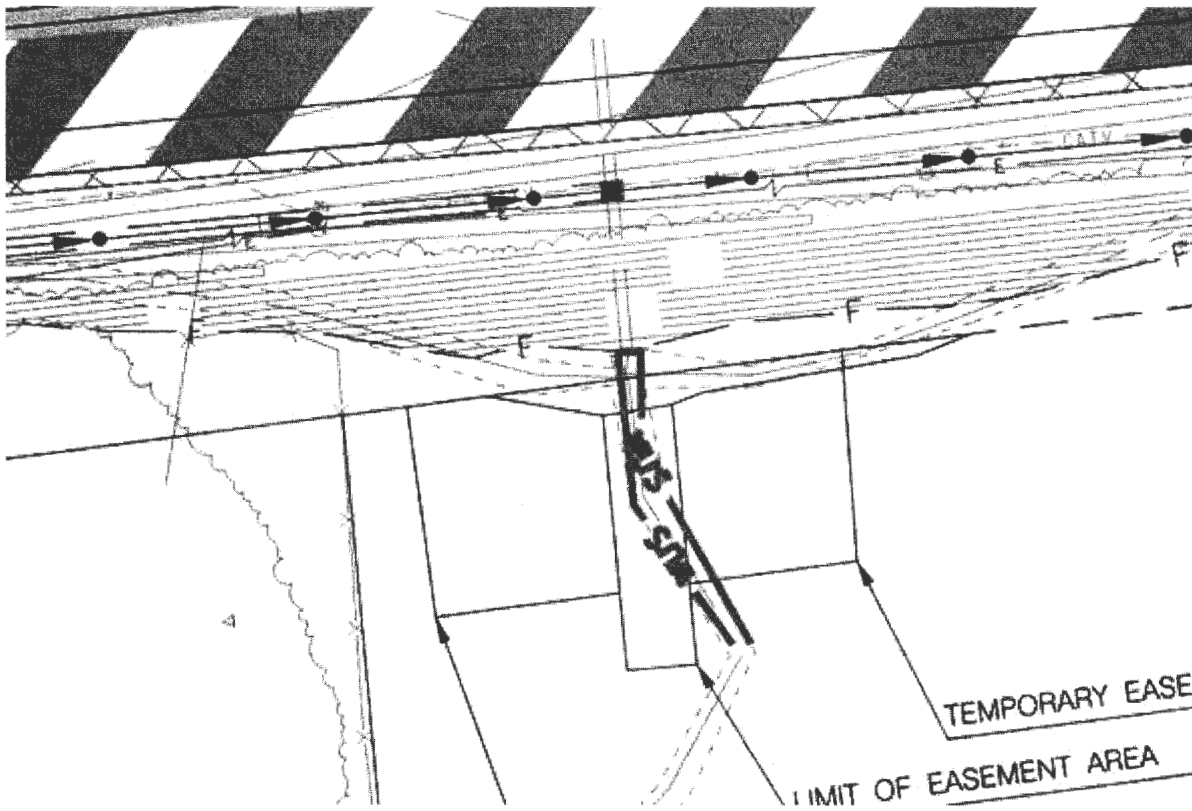
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Joe: In following up from our conversation please review the attached, if you require anything else please let me know...Craig

Craig M. Lease
SHA Project Engineer
HO1415170-HO7565370
MD 32 from MD 108 To I-70
Office: 3505 Andrea Way,
West Friendship, MD 21794
T 443.266.7313
clease@mdot.state.md.us

From: Bryan J. Smith <bjsmith@wagman.com>
Sent: Thursday, January 9, 2020 4:17 PM
To: Craig Lease <CLease@mdot.maryland.gov>
Subject: RE: HO756 - McKeever

Craig- Attached is the latest plan from WRA. I'm showing grading below as well from the utility roll plot. The swale and grading still needs to be finalized in CWZ Final Roadway plans later this year. Thanks



Bryan J. Smith, P.E. | Wagman

From: Craig Lease <CLease@mdot.maryland.gov>
Sent: Thursday, January 9, 2020 7:09 AM
To: Bryan J. Smith <bjsmith@wagman.com>
Subject: FW: HO756 - McKeever

Bryan: Please review the below and attached, I believe this is within the CWZ, can you provide proposed design -plan sheets?

Thanks- Craig

From: Lee Lambert Jr <LLambert@mdot.maryland.gov>
Sent: Tuesday, January 7, 2020 7:53 AM
To: Sean Campion <SCampion@mdot.maryland.gov>; Craig Lease <CLease@mdot.maryland.gov>; Beth Ann Larson <BLarson@mdot.maryland.gov>
Cc: 'Roxanne Harden' <rharden@orcolan.com>
Subject: FW: HO756 - McKeever

All – Please see this forward. Kevin Wolf with Howard County Health Dept is requesting some plans relative to roadway construction at Item 111485 Thomas McKeever (plat attached). Their well driller has submitted a permit application with the County for the relocation of their existing. Can someone reach out to Mr. Wolfe and help provide him with what he needs? Please advise...thank you.



Lee Lambert
Real Property Manager
District 7
Maryland Department of Transportation
State Highway Administration
Office of Real Estate
5111 Buckeystown Pike
Frederick MD 21704
llambert@sha.state.md.us
301-624-8156
301-624-8166 fax

From: Roxanne Harden <rharden@orcolan.com>
Sent: Monday, January 6, 2020 2:15 PM
To: Lee Lambert Jr <LLambert@mdot.maryland.gov>
Subject: HO756 - McKeever

Hi Lee – Happy New Year.

I got a call (voicemail) from Kevin Wolf, Howard County Health Department, concerning the McKeever property on HO756. As you will probably remember, the McKeever well is currently located within the proposed r/w for the project, so the McKeever will need to drill a new well. They have contacted the Health Dept. office to begin the permit process, and that's what prompted their contact at that Office to get in touch with me. Mr. Wolf is asking for "site plans" for the project. I left a voicemail for him explaining that I would contact you and ask the you call him. His contact info is: Kevin Wolf, Howard County Health Dept.

410-313-2645

Thank,

Roxie Harden, *Agent 3*
O. R. Colan Associates, LLC
10936 Parkersburg Road, Frostburg, MD 21532
direct: 240-580-7902 | mobile: 240-580-7902 | rharden@orcolan.com

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
9/30/19	<p>Driller Modified. Site needs to have a surveyor, Perc test plan prior to relocating well for RT 32 dual/triple. memo will be drafted and sent to SHA/owner (KRM) → Possible call made to Roxanne Harden SHA 451 249 6654 left vm no call back.</p>
11/3/2020	<p>Spoke w/ Mike Buns and Joseph C. about what was told to homeowner concerning Repl. well. Sites were staked in field but Joseph was and we could not select location @ this time. Site plan is to be prepared. Also, possible PC may need to be generated. (KRM)</p>
11/3/2019	<p>Phone call made to owner Mr. Thomas. I had explained to him that we need a site plan showing proposed well location and where and how much area is to be removed from property for Rt. 32. (KRM)</p> <p>→ Owner gave me 2 SHA contacts:</p> <ul style="list-style-type: none"> ① Roxanne Harden 240, 580, 7902 ② Mrs. Gregg 410, 575, 2830
	<p>- Phone call made to Mrs. Cey no answer left vm. - Phone call made to Roxanne Harden, no answer left vm (KRM)</p>
11/9/20	<p>Phone call made to a Mr. Craig Lease. left vm to call back. (KRM)</p>

SITE INSPECTION SHEET

[TCMK@verizon.net]

OWNER: _____ PHONE #: _____

ADDRESS: 3720 REGENTS Row CONTRACTOR: _____

_____ WELL TAG #: _____

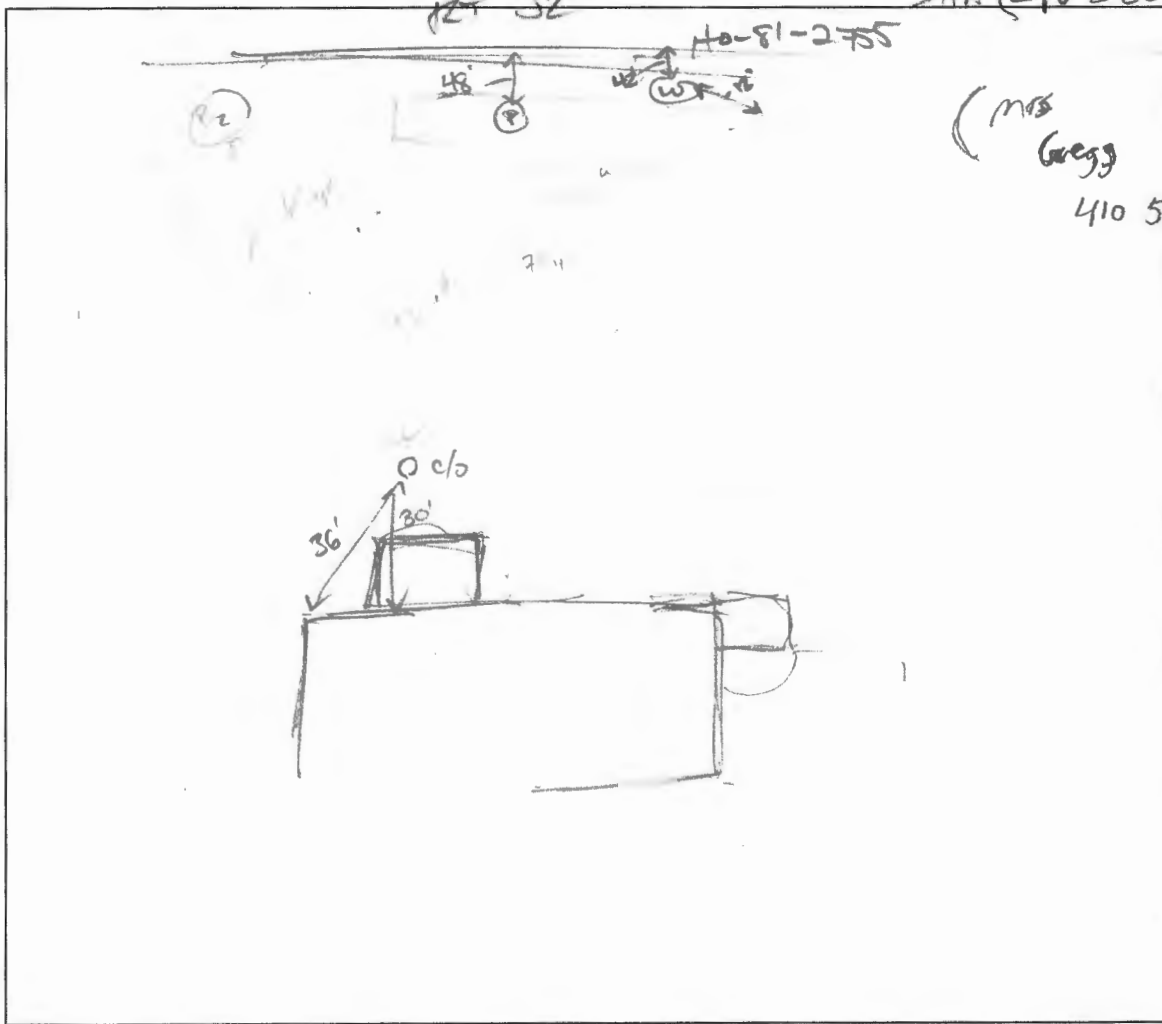
SUBDIVISION: _____ LOT: _____ COUNTY #: _____

PROPOSAL: REPLACEMENT WELL Herbert Simons (Adams)

(Roxy Harden)
651-249-6654

SHA (240 580 7902)

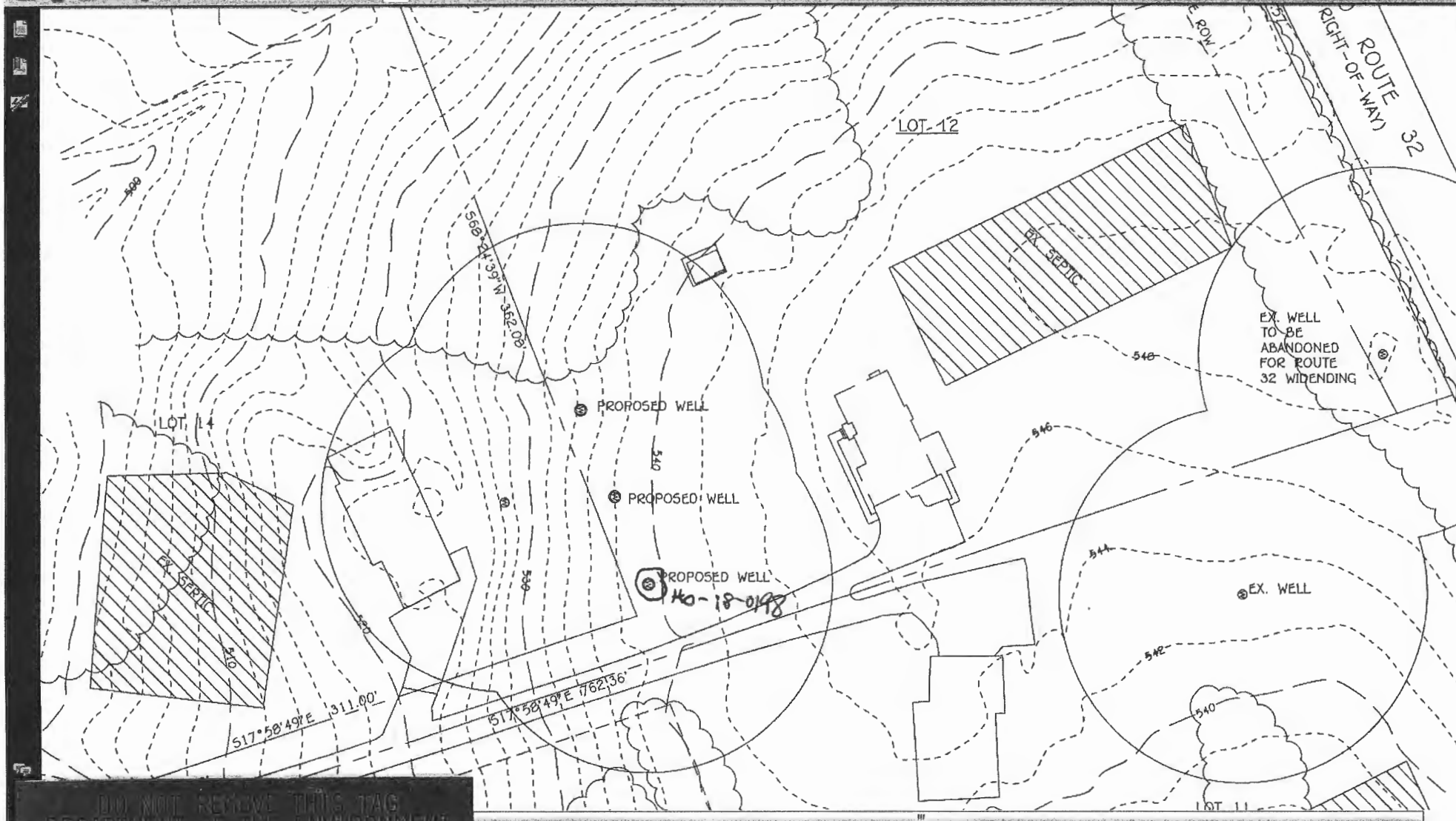
LOCATION DIAGRAM



COMMENTS: CHECK SEPTIC RECORDS + NEIGHBOR LOTS.

DATE: 09/24/2019 INSPECTOR: _____

[Handwritten signature]



DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL IDENTIFICATION NUMBER

NO-18-0198

INFORMATION LINE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE, MARYLAND 21230

3220 Regents Row

Approved 5/13/2020 (ST)

Staked by Fisher, Collins + Carter, Inc

COUNTRY NOTES

1. The first line of text is mostly illegible due to heavy noise and low contrast. It appears to contain a date or reference number.

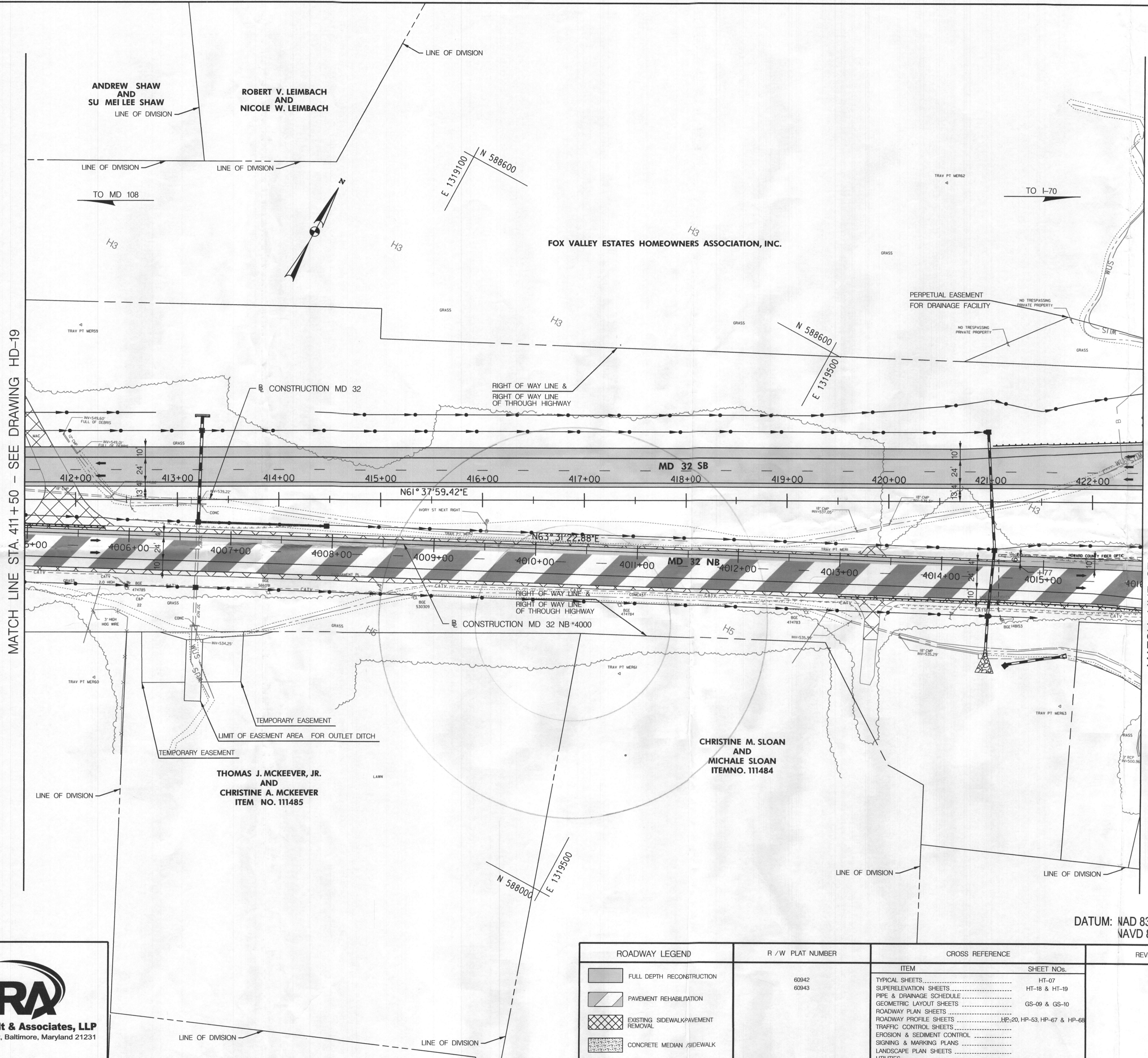
2. The second line of text is also illegible, possibly containing a name or location.

3. The third line of text is illegible, possibly containing a title or subject matter.


4. The remaining lines of text are illegible due to the same quality issues. There is a small circular mark on the right side of the page, approximately halfway down.

MATCH LINE STA. 411+50 - SEE DRAWING HD-19

MATCH LINE STA. 422+50 - SEE DRAWING HD-21



FOR INFORMATION ONLY


 MARYLAND DEPARTMENT OF TRANSPORTATION
 STATE HIGHWAY ADMINISTRATION
 HIGHWAY DESIGN DIVISION
 MD 32 - LINDEN CHURCH ROAD TO I-70
 DESIGN-BUILD

DATUM: NAD 83/91 Horizontal
NAVD 88 Vertical

ROADWAY LEGEND	R / W PLAT NUMBER	CROSS REFERENCE	
		ITEM	SHEET NOS.
FULL DEPTH RECONSTRUCTION	60942	TYPICAL SHEETS	HT-07
PAVEMENT REHABILITATION	60943	SUPERELEVATION SHEETS	HT-18 & HT-19
EXISTING SIDEWALK/PAVEMENT REMOVAL		PIPE & DRAINAGE SCHEDULE	GS-09 & GS-10
CONCRETE MEDIAN /SIDEWALK		GEOMETRIC LAYOUT SHEETS	GS-09 & GS-10
		ROADWAY PLAN SHEETS	
		ROADWAY PROFILE SHEETS	
		TRAFFIC CONTROL SHEETS	HP-20, HP-53, HP-67 & HP-68
		EROSION & SEDIMENT CONTROL	
		SIGNING & MARKING PLANS	
		LANDSCAPE PLAN SHEETS	
		UTILITIES	

ROADWAY PLAN			
SCALE 1" = 50'	DATE	FEBRUARY 2019	CONTRACT NO. H07565370
DESIGNED BY	SEP	COUNTY	HOWARD
DRAWN BY	AMU	LOGMILE	
CHECKED BY	BRT	HORIZONTAL SCALE	
MDE/PRD	17-PR-0090	VERTICAL SCALE	
DRAWING NO.	HD-20	OF	34
SHEET NO.	57	OF	159



Whitman, Requardt & Associates, LLP
801 South Caroline Street, Baltimore, Maryland 21231

BY: sproctor