

**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](http://www.hchealth.org)  
 Facebook: [www.facebook.com/hocohealth](http://www.facebook.com/hocohealth)

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

RECEIPT DATE: 5/10/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 562997

APPROVAL DATE: 6/25/18 SEC **PERMIT: CONSTRUCTION**

A \_\_\_\_\_

PROPERTY ADDRESS: 1030 Fairlane Road

SUBDIVISION: Fairlane Farms

LOT: 24

TAX ID: \_\_\_\_\_

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.com

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: NV Homes

EMAIL: \_\_\_\_\_

OWNER ADDRESS: 9720 Patuxent Woods Drive, Columbia, MD 21046

PHONE: 410-379-5956

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon Vault or equivalent

PUMP MODEL: N/A

PUMP SIZE \_\_\_\_\_

N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM:  GRAVITY

PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>129</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4</u>
LOCATION:	<b>PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.</b>	
NOTES:	Use 3 trenches @ 43 LF	

ISSUED BY: Hank Oswald

ISSUE DATE: 5/10/18

EXPIRATION DATE: 5/10/19

**NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION**

**NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING**

**NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.**

**NOTE: WATERTIGHT TANKS REQUIRED**

**NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRAIDENT FROM ANY WATER WELL**

**NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS**

**NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM**

ELECTRICAL PERMIT ISSUED E \_\_\_\_\_

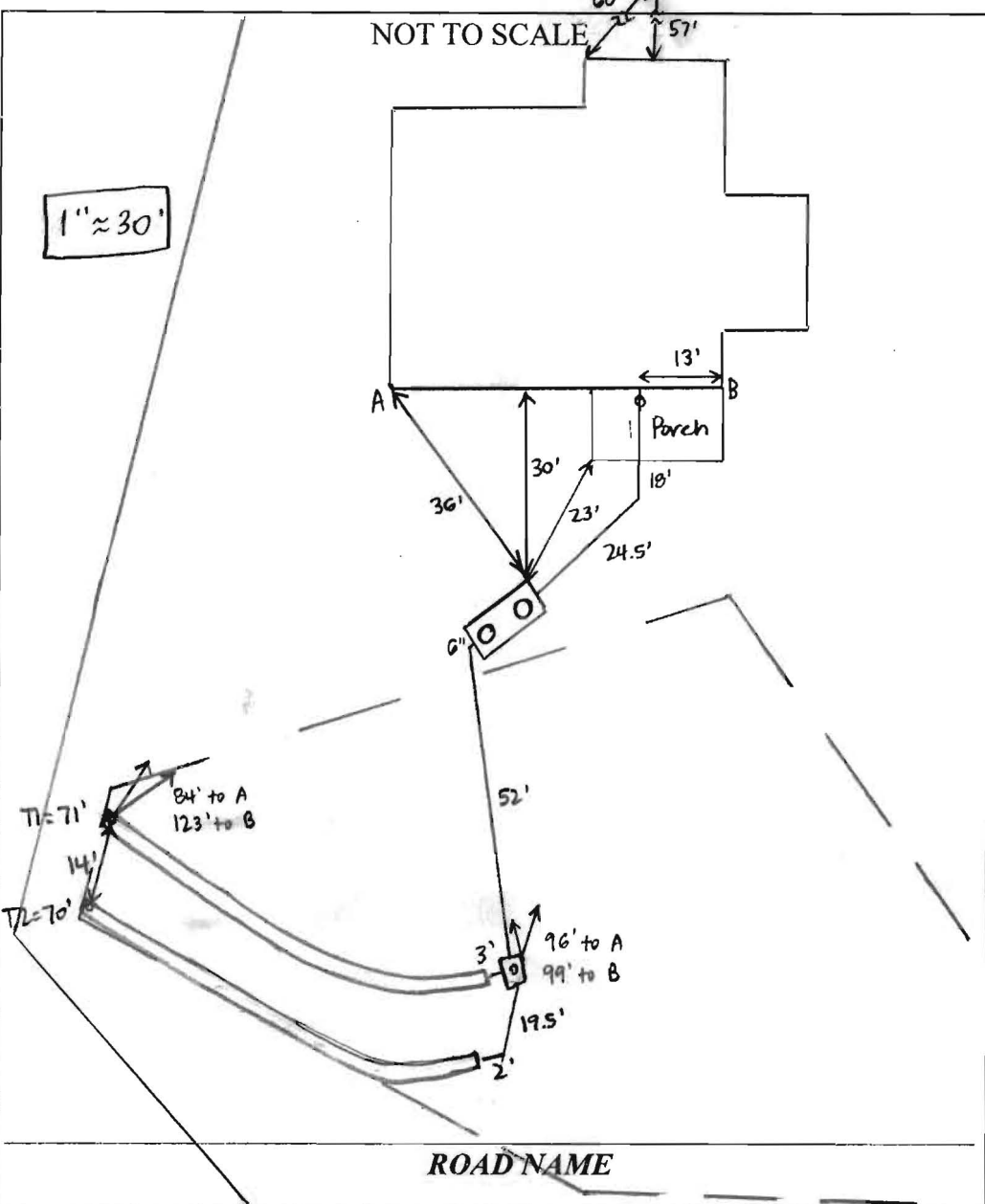
**NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA**

**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.**

**CALL 410-313-1771 TO SCHEDULE INSPECTIONS.**

10-15-0361



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	4-4.5'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		141'
ABSORPTION AREA		423' + SIDENALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TDP
TANK LID DEPTH	0.5-1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	5-21-18
<del>PUMP/SEPTIC TANK LEVEL</del>	
<del>MANUFACTURER</del>	
<del>CAPACITY</del> GAL	
<del>SEAM LOC</del>	
<del>TANK LID DEPTH</del>	
<del>BAFFLES</del>	
<del>BAFFLE FILTER</del>	
<del>MANHOLE LOC</del>	
<del>6" PORT LOC</del>	
<del>WATERTIGHT TEST</del>	
<del>SLOTTED</del>	
<del>DATE ON LID</del>	

PRE-CONSTRUCTION:

6/14/18 Met S. Carroll on site for layout. Tank staked, SDA corner stakes present. Shot contour, close to what's shown on plan. Laid out 2 x 65' trenches keeping D-box in the center. Shot elevations of sewer line, tank, + D-box - will make 4' inlet @ T1. (SC)

6/21/18 Contractor cannot make 4' inlet @ T1. Shot contour + tried to fit 3rd trench as shown on plan - would cut uphill too sharply. OK to add 5' to starts of T1 + T2. T1 inlet = 4.5' + T2 inlet = 4'. (SC) made

INSTALLATION: 5/3/19 House connection. Sewer line extended past future porch which will be above. (SC) 6/21/18 Tank set per plan. Need front baffle. (SC) 6/25/18 T1 complete - left open @ ends for inspection, T2 dug + S. Carroll waiting for stone to finish. 3' wide, 6' bottom, 4-4.5' inlet. Levelled speed levelers in D-box. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 6/25/18

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Tuesday, April 24, 2018 9:08 AM  
**To:** 'Tony Fertitta'  
**Subject:** FW: lot 24

Hi Tony:

The OSDS Plan for Lot 24 does not match Kevin's specs. You are showing 4 trenches @ 39 ft. and using 3 foot of sidewall. Please revise to match or call to discuss.

Thanks,

Hank

---

**From:** Wolf, Kevin  
**Sent:** Tuesday, April 24, 2018 9:01 AM  
**To:** Oswald, Hank  
**Subject:** FW: lot 20 and 24

---

**From:** Wolf, Kevin  
**Sent:** Friday, April 20, 2018 1:36 PM  
**To:** 'Tony Fertitta'; 'Dave Harward, III'  
**Subject:** RE: lot 20 and 24

Just to clarify also, we will need 129LF of trench on this one.  
 $5\text{br} \times 150 = 750 \div 1.2\text{gpd}/\text{ft}^2 = 625\text{ft}^2 \div 3 = 208 \times .62(\text{sidewall red}) = 129\text{LF}$

You can eliminate the 2 trenches downhill on the initial system.

Thanks

Kevin

---

**From:** Wolf, Kevin  
**Sent:** Friday, April 20, 2018 1:29 PM  
**To:** 'Tony Fertitta'; Dave Harward, III  
**Subject:** RE: lot 20 and 24

Tony,  
See attached layout. We will need 3 trenches at 43ft in length. I am using the application rate of 1.2gpd/ft<sup>2</sup> instead of 0.82gpd/ft<sup>2</sup>. I want to surround the initial system around perc test 196 which utilizes the 1.2gpd/ft<sup>2</sup>. Keep the two trenches as is running along contour 598'. Run the Distribution box in between these trenches. Add another 43ft trench below the SE most trench (see attached). Adjust the trench spec's as follows: Inlet invert 4ft below grade, trench bottom depth 6ft below grade. Fall will be close but holding 1% fall throughout. I am out of the office Monday if you have any questions, ill be back on Tuesday.

Kevin

---

**From:** Tony Fertitta [mailto:tonyf@fcc-eng.com]  
**Sent:** Friday, April 20, 2018 1:13 PM  
**To:** Wolf, Kevin; Dave Harward, III  
**Subject:** RE: lot 20 and 24

CAN YOU COPY DAVE HARWARD FROM MY OFFICE WITH THE CHANGES. THANKS

---

**From:** Wolf, Kevin [mailto:KWolf@howardcountymd.gov]  
**Sent:** Friday, April 20, 2018 11:23 AM  
**To:** Tony Fertitta  
**Subject:** RE: lot 20 and 24

Only lot 24. I will need a revision on this too. I will forward you my sketch on trench/tank/dbox placement.

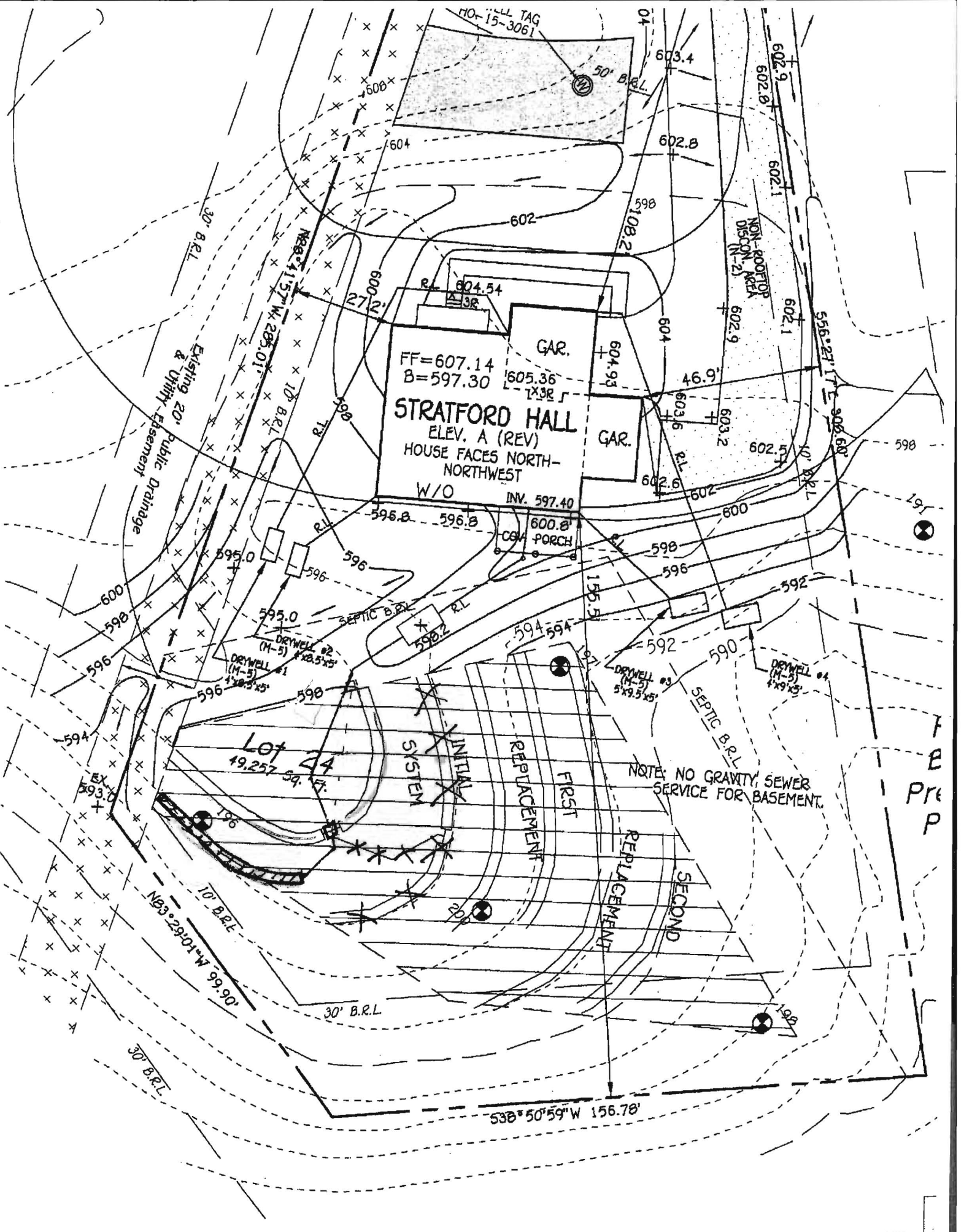
---

**From:** Tony Fertitta [mailto:tonyf@fcc-eng.com]  
**Sent:** Friday, April 20, 2018 11:12 AM  
**To:** Wolf, Kevin  
**Subject:** lot 20 and 24

did you get a chance to look at them



Right Click the Card to add me to your Contacts



STRATFORD HALL  
ELEV. A (REV)  
HOUSE FACES NORTH-NORTHWEST

Lot 24  
49.257 sq. ft.

NOTE: NO GRAVITY SEWER SERVICE FOR BASEMENT.

F  
E  
PREP

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Thursday, April 12, 2018 10:49 AM  
**To:** 'Tony Fertitta'  
**Subject:** RE: OSDS Plan\_1030 Fairlane Road

Tony:

We would like to see the d-box brought up to the 598 contour and we still want the trenches split due to the contour.

Hank

---

**From:** Oswald, Hank  
**Sent:** Wednesday, April 11, 2018 8:43 AM  
**To:** 'Tony Fertitta'  
**Subject:** OSDS Plan\_1030 Fairlane Road

Hi Tony:

Good morning. Please see attached memo regarding trench placement and upsizing on OSDS Plans.

Also, please revise the OSDS Plan for *1030 Fairlane Road* according to the following comments;

- 1.) Utilize the area at the top of the SDA by placing the d-box further up and start the trenches in the center (See attachment for layout recommendation).
- 2.) Re-exam invert elevation out of the house to ensure that it won't interfere the house foundation.
- 3.) Show additional step in calculation (i.e.  $937.5/3 = 312.5$ ).

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@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.

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Wednesday, April 11, 2018 8:43 AM  
**To:** 'Tony Fertitta'  
**Subject:** OSDS Plan\_1030 Fairlane Road  
**Attachments:** OSDS Memo To FCC\_Trench Placement & Upsizing\_2018.pdf; Trench Design.pdf

Hi Tony:

Good morning. Please see attached memo regarding trench placement and upsizing on OSDS Plans.

Also, please revise the OSDS Plan for *1030 Fairlane Road* according to the following comments;

- 1.) Utilize the area at the top of the SDA by placing the d-box further up and start the trenches in the center (See attachment for layout recommendation).
- 2.) Re-exam invert elevation out of the house to ensure that it won't interfere the house foundation.
- 3.) Show additional step in calculation (i.e.  $937.5/3 = 312.5$ ).

Should you have any questions, please don't hesitate to ask.

Thanks,

Hank

Hank Oswald  
Licensed Environmental Health Specialist  
Howard County Health Department  
Bureau of Environmental Health  
Well & Septic Program  
8930 Stanford Boulevard  
Columbia, MD 21045  
410.313.1786 (Office)  
[hoswald@howardcountymd.gov](mailto:hoswald@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.

---

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

**MEMORANDUM**

**TO:** Fisher, Collins & Carter, Inc.  
10272 Baltimore National Pike  
Ellicott City, MD 21042

**FROM:** Hank Oswald, L.E.H.S.  
Well & Septic Program

**RE:** OSDS Plans

**Date:** April 11, 2018

---

The following comments pertain to OSDS Plans:

1. All proposed trench layouts must be positioned in such a way that they utilize the top most portions of the sewage disposal area first, i.e. placing d-boxes at top corner or top center of the sewage disposal area and placing the trenches at the highest area possible and starting in the corner or center.
2. If the proposed trench configuration is as efficient as possible, but still leaves unused area between the end of the trenches and the edge of the sewage disposal area, we would like engineers to consider increasing the size of the trenches in order to extend them to the edge of the disposal area. The idea is to upsize the system now to make the most use of the area. This is not a requirement, but something to consider. Make sure to do the calculations and add a note if the extra available area gives the capacity for extra future bedrooms. If nothing else, increasing the trench length now to stretch to the edge of the area will allow for more surge capacity in the system.

---

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

**MEMORANDUM**

**TO:** Fisher, Collins & Carter, Inc.  
10272 Baltimore National Pike  
Ellicott City, MD 21042

**FROM:** Hank Oswald, L.E.H.S.  
Well & Septic Program

**RE:** 1030 Fairlane Road  
Fairlane Farms, Lot 24

**Date:** March 29, 2018

---

The OSDS Plan for 1030 Fairlane Road has been reviewed with the following comments:

- 1.) Match basement elevation 596.80 to 596.60 or vice versa
- 2.) Match well tag # on plan with note.
- 3.) Match invert elevations out of the house for the "Septic Profile" (594.97 or 592.05?)
- 4.) Match invert elevations in profile with invert elevations listed next to trench data.
- 5.) Raise trench invert up to 2 feet in order to utilize the 3 foot reduction credit by showing this in the "Initial Trench Detail". Adjust elevations accordingly.
- 6.) Make bottom depth 5 feet (not 7 feet) for "Initial Trench Detail"
- 7.) Entire well box must meet 10 foot setback to driveway.

# FISHER, COLLINS & CARTER, INC.

CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS

# Transmittal

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.  
Frank Manalansan II, L.S.  
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stanford Blvd.</b> <b>Columbia, Maryland 21046-4544</b>	Attn: <b>Hank</b> Fax: Phone: <b>410-313-2640</b>
---	---

From: <b>Tony Fertitta</b>	CC:
----------------------------	-----

Re: <b>Fairlane Farms, Lot 24</b>	W.O.# <b>05106-3003</b>
Date: <b>March 27, 2018</b>	Pages: <b>0</b> <b>Page(s) Including this cover</b>

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other <input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input checked="" type="checkbox"/> For Review & Comment
---

Remarks:

**Re: Fairlane Farm, Lot 24, 1030 Fairlane Rd.**

**Here are 3 new copies of the OSDS for Lot 24 for your review. Please let me know if you have any questions.**

**Thank You,**

**Tony.**

**Fisher, Collins, & Carter, Inc. Ph. 410-461-2855**

### CONFIDENTIALITY NOTICE

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

**Transmittal**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.  
Frank Manalansan II, L.S.  
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stanford Blvd.</b> <b>Columbia, Maryland 21046-4544</b>	Attn: <b>Hank</b> Fax: Phone: <b>410-313-2640</b>
---	---

From: <b>Tony Fertitta</b>	CC:
----------------------------	-----

Re: <b>Fairlane Farms, Lot 24</b>	W.O.# <b>05106-3003</b>
Date: <b>March 27, 2018</b>	Pages: <b>0</b> <b>Page(s) Including this cover</b>

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other
<input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input checked="" type="checkbox"/> For Review & Comment

Remarks:

**Re: Fairlane Farm, Lot 24, 1030 Fairlane Rd.**

**Here are 3 new copies of the OSDS for Lot 24 for your review. Please let me know if you have any questions.**

**Thank You,**

**Tony.**

**Fisher, Collins, & Carter, Inc. Ph. 410-461-2855**

**CONFIDENTIALITY NOTICE**

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

## Oswald, Hank

---

**From:** Oswald, Hank  
**Sent:** Thursday, March 29, 2018 12:16 PM  
**To:** 'Tony Fertitta'  
**Subject:** RE: Fairlane Farms, Phase 2 Redline of F Plans  
**Attachments:** OSDS Memo To FCC\_2018\_Lot 20.pdf; OSDS Memo To FCC\_2018\_Lot 24.pdf

Hi Tony:

Attached, please find memos for Fairlane Farms, Lot 20 and 24.

Thanks,

Hank

---

**From:** Tony Fertitta [<mailto:tonyf@fcc-eng.com>]  
**Sent:** Thursday, March 29, 2018 10:38 AM  
**To:** Oswald, Hank  
**Subject:** FW: Fairlane Farms, Phase 2 Redline of F Plans

Hank can you review Lots 20 & 24 first please. Thx.

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.  
Frank Manalansan II, L.S.  
Stephanie Tuite, RLA, P.E., LEED AP BD&C

# Transmittal

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stanford Blvd.</b> <b>Columbia, Maryland 21046-4544</b>	Attn: <i>HAKK</i> Fax: Phone: <b>410-313-2640</b>
---	---

From: <b>Tony Fertitta</b>	CC:
----------------------------	-----

Re: <b>Fairlane Farms, Lot 24</b>	W.O.# <b>05106-3003</b>
Date: <b>April 23, 2018</b>	Pages: <b>0</b> <b>Page(s) Including this cover</b>

We are forwarding:	<input checked="" type="checkbox"/> Prints	<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Specifications	<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Other
	<input type="checkbox"/> Urgent	<input type="checkbox"/> For your use	<input type="checkbox"/> As requested	<input checked="" type="checkbox"/> For Review & Comment	

Remarks:

**Re: Fairlane Farm, Lot 24, 1030 Fairlane Rd.**

**Here are 3 new copies of the OSDS for Lot 24 for your review. Please let me know if you have any questions.**

**Thank You,**

**Tony.**

**Fisher, Collins, & Carter, Inc. Ph. 410-461-2855**

**CONFIDENTIALITY NOTICE**

This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

## Wolf, Kevin

---

**From:** Wolf, Kevin  
**Sent:** Friday, April 20, 2018 1:29 PM  
**To:** 'Tony Fertitta'; Dave Harward, III  
**Subject:** RE: lot 20 and 24  
**Attachments:** 20180420132817113.pdf

Tony,  
See attached layout. We will need 3 trenches at 43ft in length. I am using the application rate of 1.2gpd/ft<sup>2</sup> instead of 0.82gpd/ft<sup>2</sup>. I want to surround the initial system around perc test 196 which utilizes the 1.2gpd/ft<sup>2</sup>. Keep the two trenches as is running along contour 598'. Run the Distribution box in between these trenches. Add another 43ft trench below the SE most trench (see attached). Adjust the trench spec's as follows: Inlet invert 4ft below grade, trench bottom depth 6ft below grade. Fall will be close but holding 1% fall throughout.  
I am out of the office Monday if you have any questions, ill be back on Tuesday.

Kevin

---

**From:** Tony Fertitta [<mailto:tonyf@fcc-eng.com>]  
**Sent:** Friday, April 20, 2018 1:13 PM  
**To:** Wolf, Kevin; Dave Harward, III  
**Subject:** RE: lot 20 and 24

CAN YOU COPY DAVE HARWARD FROM MY OFFICE WITH THE CHANGES. THANKS

---

**From:** Wolf, Kevin [<mailto:KWolf@howardcountymd.gov>]  
**Sent:** Friday, April 20, 2018 11:23 AM  
**To:** Tony Fertitta  
**Subject:** RE: lot 20 and 24

Only lot 24. I will need a revision on this too. I will forward you my sketch on trench/tank/dbox placement.

---

**From:** Tony Fertitta [<mailto:tonyf@fcc-eng.com>]  
**Sent:** Friday, April 20, 2018 11:12 AM  
**To:** Wolf, Kevin  
**Subject:** lot 20 and 24

did you get a chance to look at them



Right Click the Card to add me to your Contacts



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: \_\_\_\_\_

Subdivision: Fairlane Farm Lot: 24

Initial system: Application rate: 1.2 Effective area beginning depth: 4' Bottom maximum depth: 6'

1<sup>st</sup> Replacement: Application rate: 0.8 Effective area beginning depth: 2' Bottom maximum depth: 5'

2<sup>nd</sup> Replacement: Application rate: 0.8 Effective area beginning depth: 2' Bottom maximum depth: 5'

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

\* Perc jobs hole to be dug below trench near S.T.  
 OK to lower trench spacing 4'-6'.

Approved: Hank Oswald *Revised (Kow)* Date: 12/14/17

**FISHER, COLLINS  
& CARTER, INC.**

**CIVIL ENGINEERING CONSULTANTS  
and LAND SURVEYORS**

# Transmittal

Terrell A. Fisher, P.E., L.S.  
Earl D. Collins, P.E.  
Charles J. Crovo, Sr., P.E., L.S.

Paul W. Kriebel, P.E.  
Mark L. Robel, P.L.S.  
Aldo M. Vitucci, P.E.  
Frank Manalansan II, L.S.  
Stephanie Tuite, RLA, P.E., LEED AP BD&C

Via:  Fax  Mail  Messenger  E-Mail  To Be Picked Up  
 Fax (original to follow via U.S. Mail)

To: <b>Bureau of Environmental Health</b> <b>8930 Stanford Blvd.</b> <b>Columbia, Maryland 21046-4544</b>	Attn: <b>Hank</b> Fax: Phone: <b>410-313-2640</b>
---	---

From: <b>Tony Fertitta</b>	CC:
----------------------------	-----

Re: <b>Fairlane Farms, Lot 24</b>	W.O.# <b>05106-3003</b>
Date: <b>April 6, 2018</b>	Pages: <b>0</b> <b>Page(s) Including this cover</b>

We are forwarding: <input checked="" type="checkbox"/> Prints <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Specifications <input type="checkbox"/> Shop drawings <input type="checkbox"/> Other
<input type="checkbox"/> Urgent <input type="checkbox"/> For your use <input type="checkbox"/> As requested <input checked="" type="checkbox"/> For Review & Comment

Remarks:

**Re: Fairlane Farm, Lot 24, 1030 Fairlane Rd.**

**Here are 3 new copies of the OSDS for Lot 24 for your review. Please let me know if you have any questions.**

**Thank You,**

**Tony.**

**Fisher, Collins, & Carter, Inc. Ph. 410-461-2855**


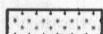
**CONFIDENTIALITY NOTICE**

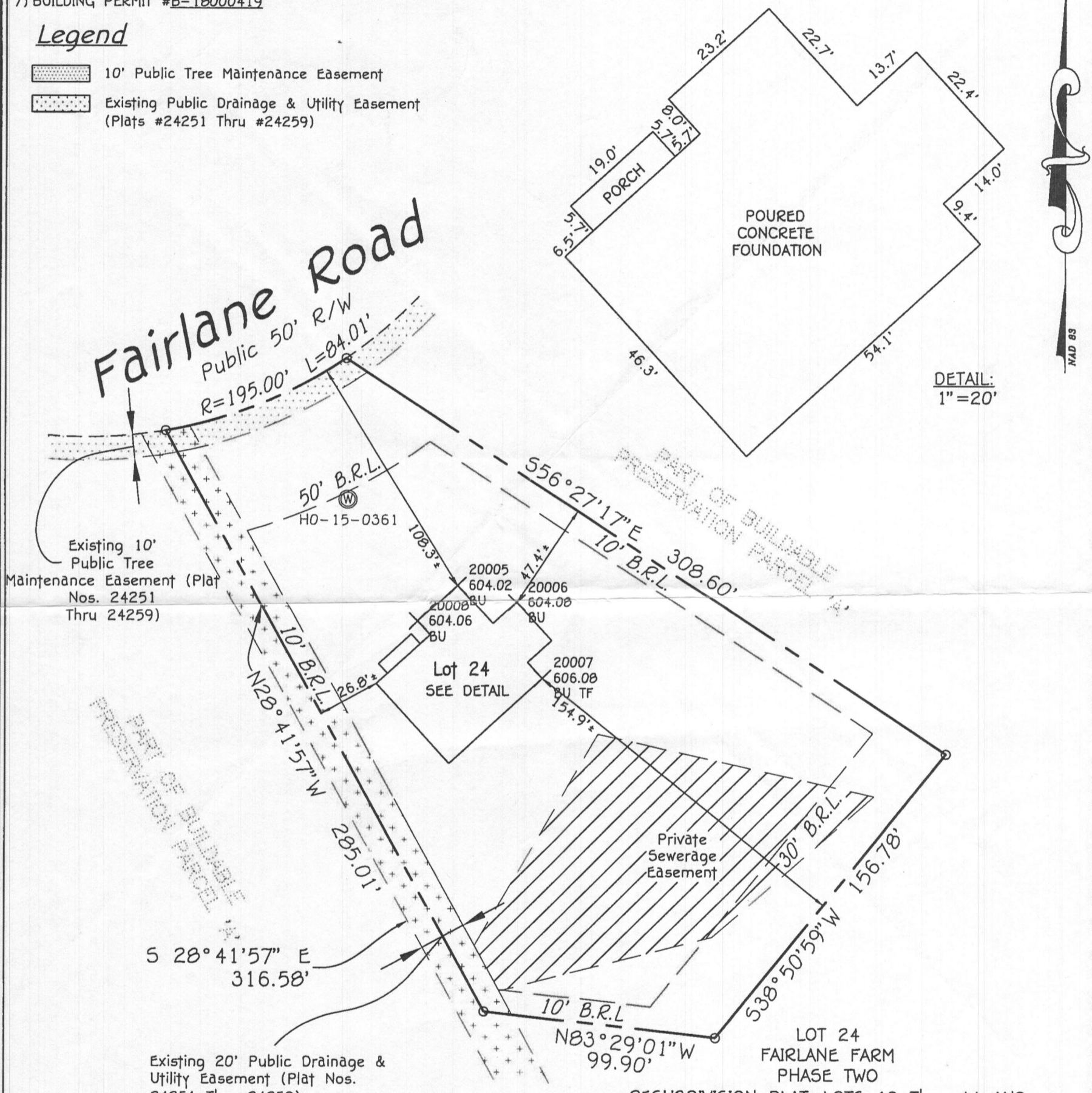
This transmission contains confidential information which may be legally privileged, and is intended only for the use of the individual named above. If you are not the intended recipient, you are hereby notified that any distribution (except to the intended recipient), copying, or disclosure of this transmission is strictly prohibited.

**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 X ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C0035D EFFECTIVE 11-06-2013.
- 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-15-0361 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 6) PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 339, EXPIRATION DATE 10/04/2018.
- 7) BUILDING PERMIT #B-18000419

**Legend**

-  10' Public Tree Maintenance Easement
-  Existing Public Drainage & Utility Easement (Plats #24251 Thru #24259)



DETAIL:  
1"=20'



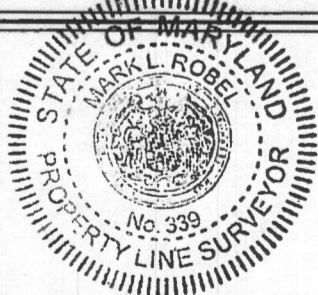
LOT 24  
FAIRLANE FARM  
PHASE TWO  
RESUBDIVISION PLAT-LOTS 19 Thru 44 AND  
NON-BUILDABLE PRESERVATION PARCELS 'I' THRU 'N',  
AND REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'  
PLATS NOS. 24367 THRU 24372  
FOURTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

#1030 FAIRLANE ROAD  
B.R.L. = BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEVATION = 606.1'±

5/18/18 - well check  
ok - H.O.

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
(410) 461 - 2855

Drawing Name:



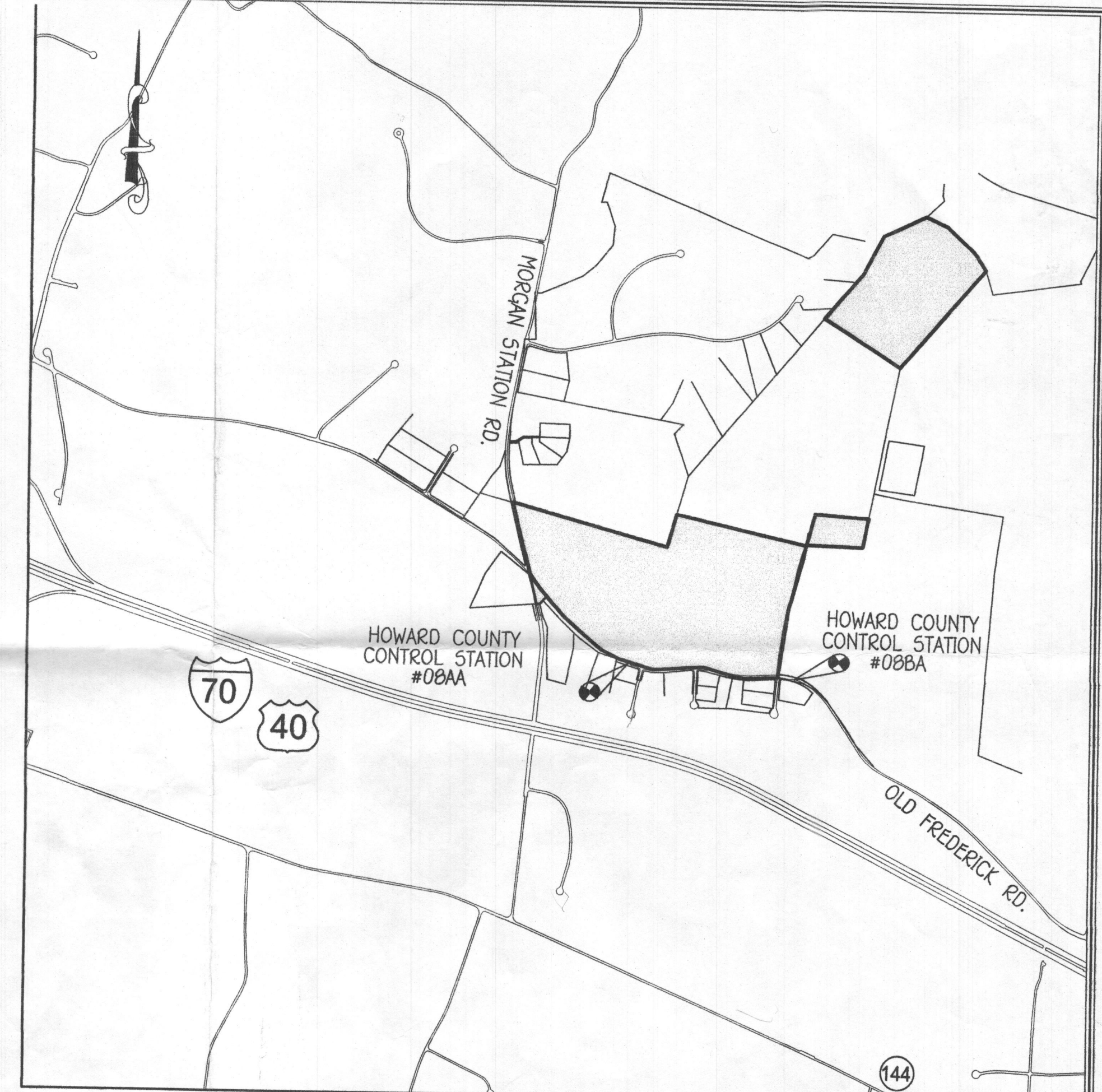
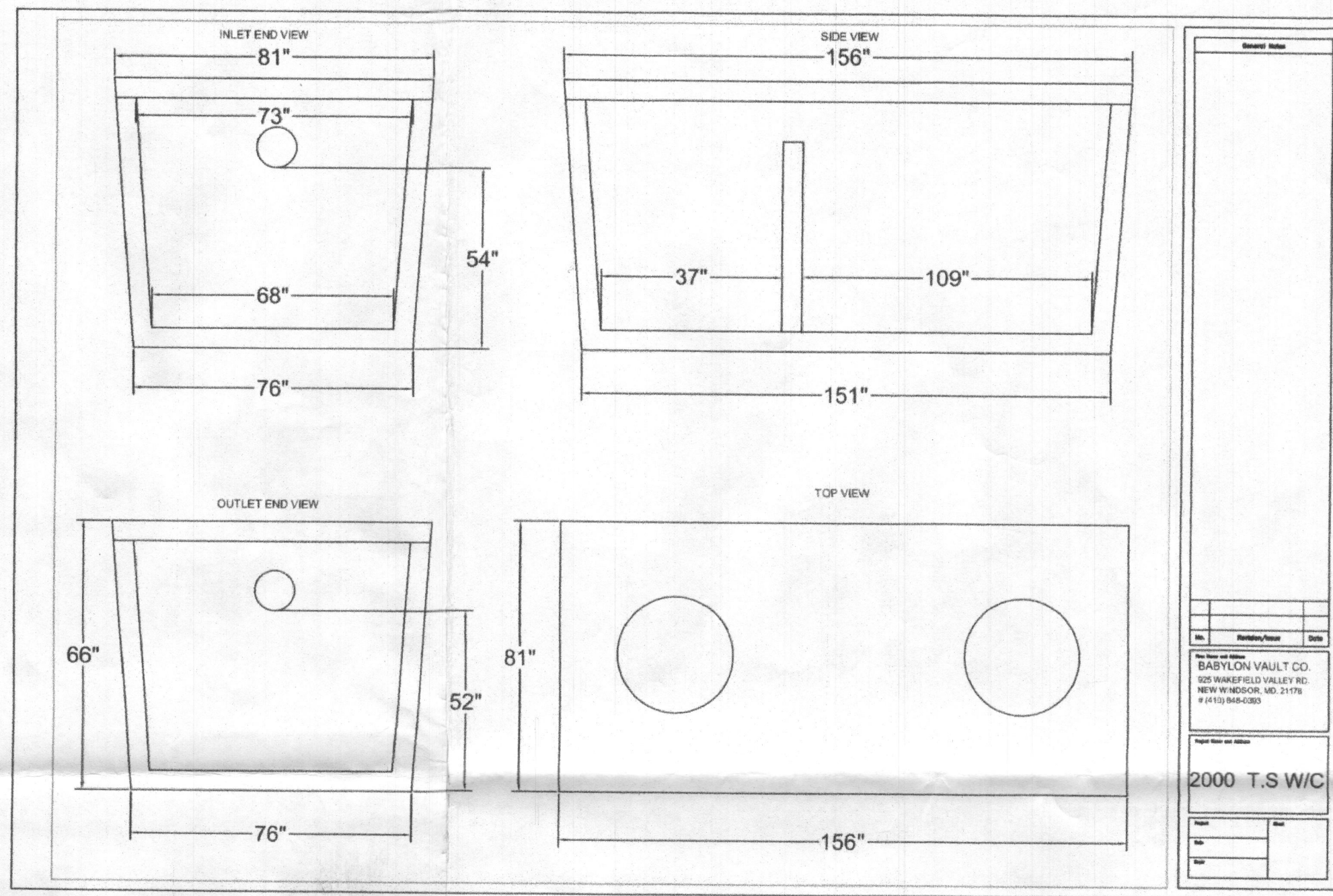
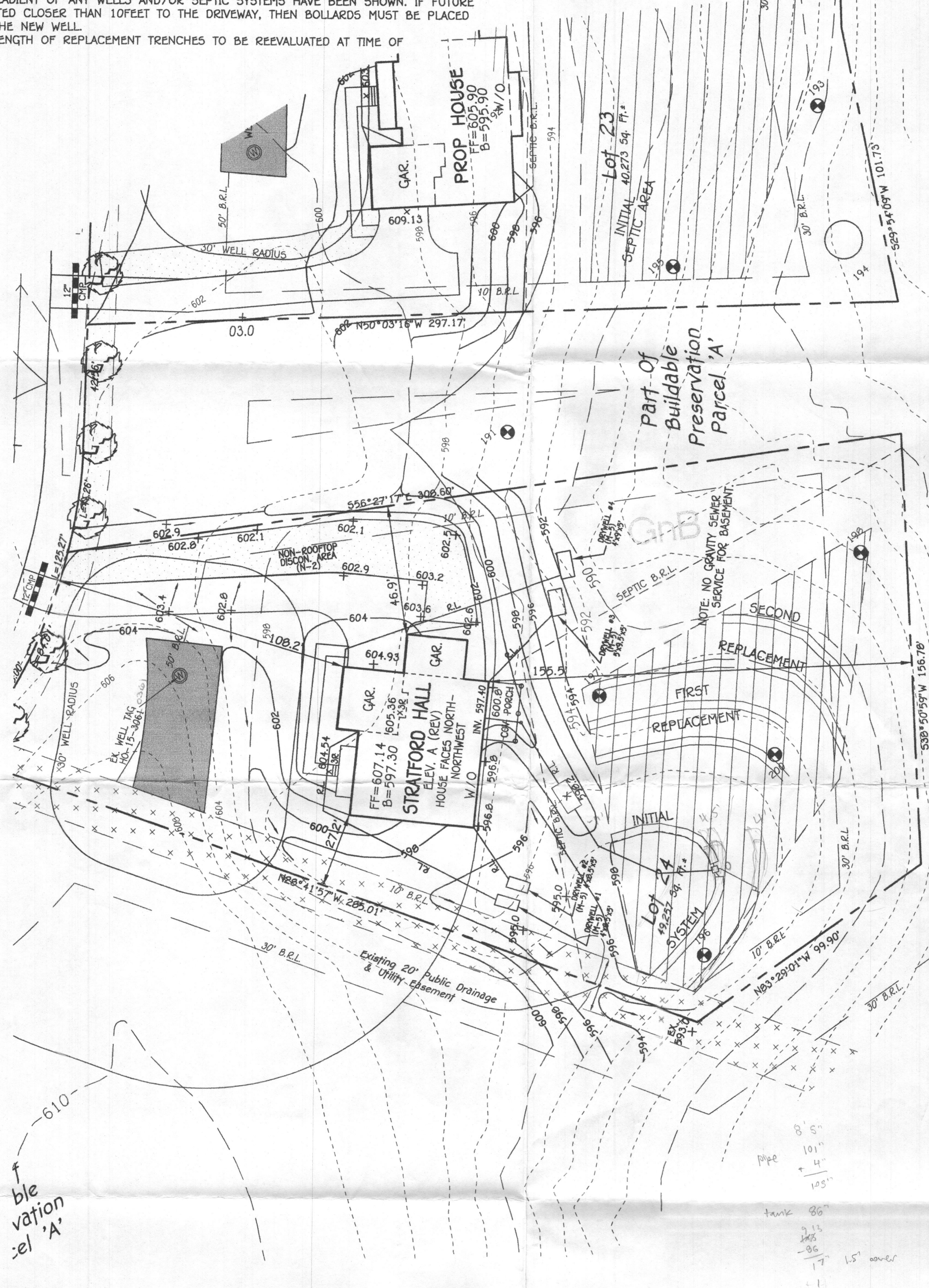
*Mark L. Robel* 5/18/18  
PROPERTY LINE SURVEYOR DATE  
REG. #339

**HOUSE LOCATION  
DRAWING**

FOUNDATION LOCATION: 5/4/18  
FINAL LOCATION: \_\_\_\_\_  
BOUNDARY SURVEY: \_\_\_\_\_

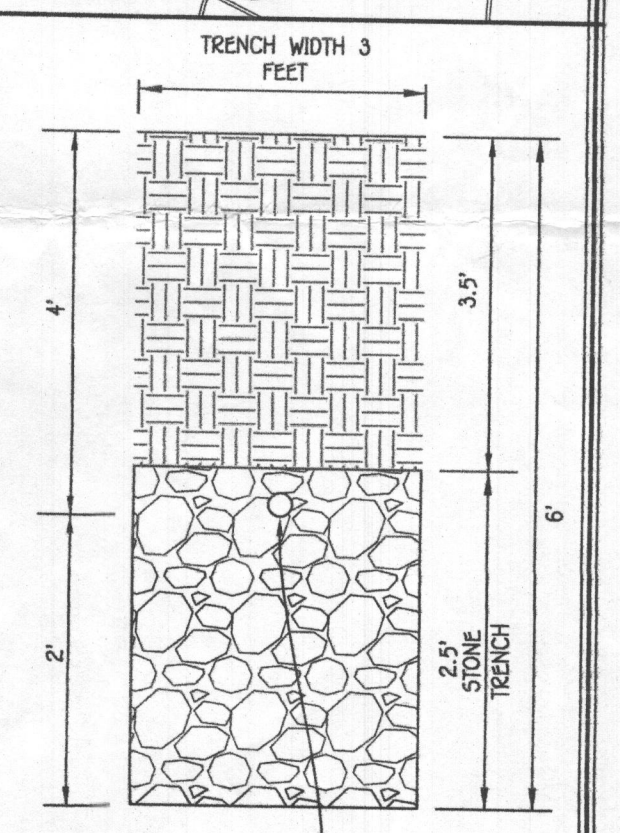
SCALE: 1"=50'  
DATE: 5/8/18  
DRAWN BY: MD  
CHECKED BY: MLR  
PROJECT No.: 05106-3003

1. ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
2. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
3. ELECTRICAL WORK FOR THE INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN.
4. THE WELL HO-19-3061 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
5. ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN. IF FUTURE WELL IS LOCATED CLOSER THAN 10 FEET TO THE DRIVEWAY, THEN BOLLARDS MUST BE PLACED TO PROTECT THE NEW WELL.
7. LAYOUT AND LENGTH OF REPLACEMENT TRENCHES TO BE REEVALUATED AT TIME OF REPLACEMENT.



FFE 607.14  
 BSE 597.30  
 INV. OUT OF HOUSE = 597.40  
 PROP. GROUND AT CLEANOUT #1 = 600.5  
 INV. INTO CLEANOUT = 597.00  
 INV. OUT OF CLEANOUT = 596.47  
 EX. GROUND AT SEPTIC TANK = 596.0  
 PROP. GRADE ABOVE SEPTIC TANK = 598.2  
 TOP OF SEPTIC TANK = 596.94  
 INV. INTO SEPTIC TANK = 595.94  
 INV. OUT OF SEPTIC TANK = 595.69  
 EX. GROUND AT DISTRIBUTION BOX = 597.5  
 INV. INTO DISTRIBUTION BOX = 593.6  
 INV. OUT OF DISTRIBUTION BOX = 593.5

**VICINITY MAP**  
 SCALE: 1" = 1200'



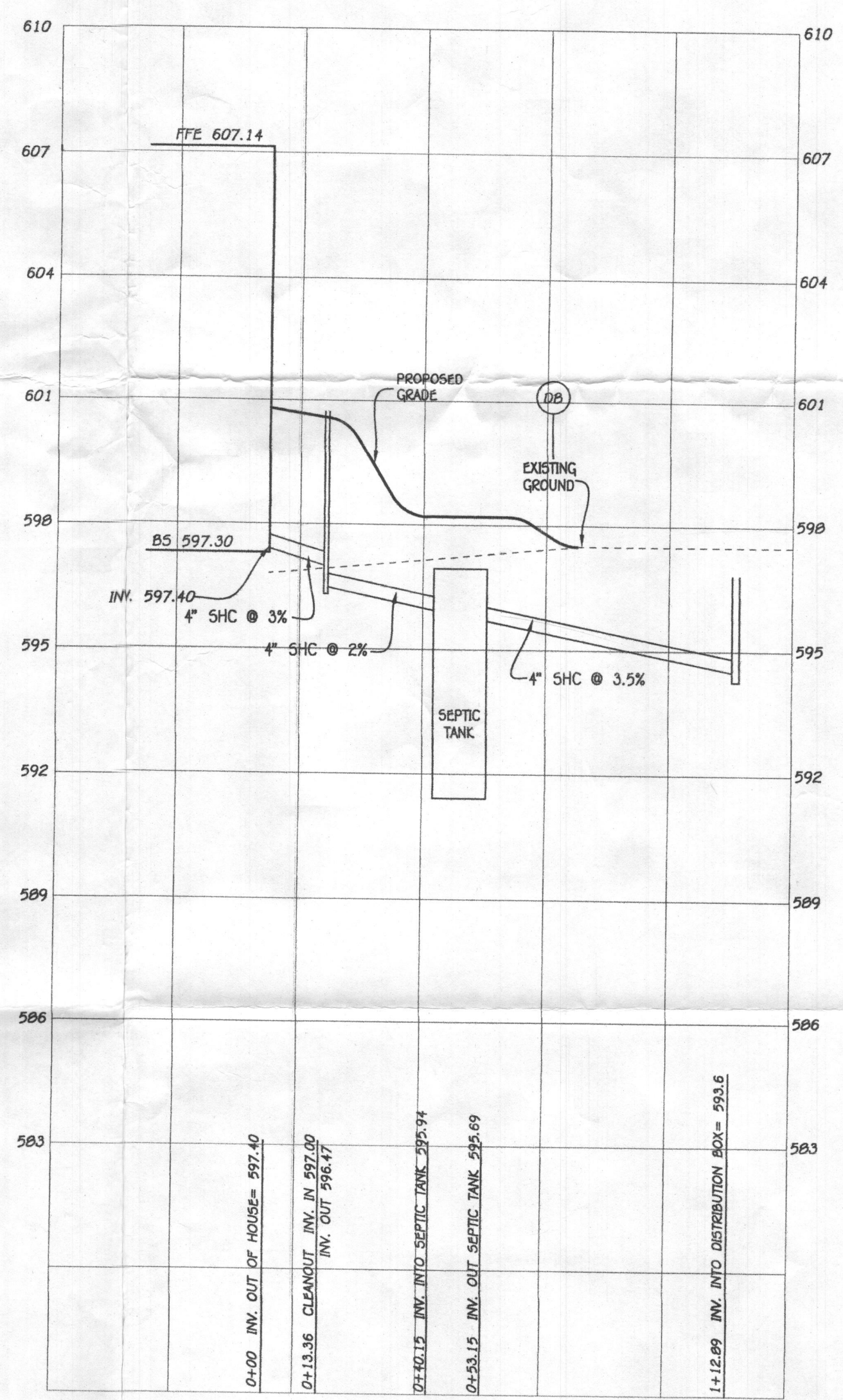
Approved Septic System Plan  
 Howard County Health Department  
 H. Oswald  
 Signature Date

**TRENCH DATA:**  
 TRENCH 1 & 2:  
 EX. GROUND ABOVE = 597.5  
 INV. IN = 593.5  
 BOTTOM TRENCH = 591.5  
 TRENCH 3:  
 EX. GROUND ABOVE = 596.2  
 INV. IN = 592.2  
 BOTTOM TRENCH = 590.2

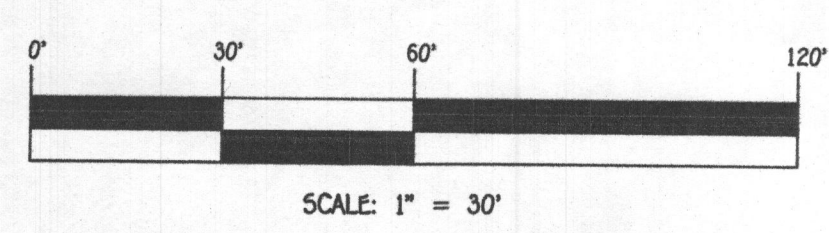
**INITIAL SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 1.2  
 EFFECTIVE SIDEWALL BEGINS AT 4 FEET  
 TRENCH DEPTH = 6 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 2 FEET  
 SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2)) = .62  
 TRENCH LENGTH = 208 SF x .62 = 129 FEET  
 (USE 3 TRENCHES AT 43 LF.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

**2ND REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 2 FEET  
 TRENCH DEPTH = 5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 2 FEET  
 SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5  
 TRENCH LENGTH = 312.5 SF x 0.5 = 156.25 FEET  
 (USE 3 TRENCHES AT 52.08 LF.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

**1ST REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA DESIGN FOR 5 BEDROOMS  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 2 FEET  
 TRENCH DEPTH = 5 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 2 FEET  
 SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF  
 COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x3)) = 0.5  
 TRENCH LENGTH = 312.5 SF x 0.5 = 156.25 FEET  
 (USE 2 TRENCHES AT 78.13 LF.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'



**SEPTIC PROFILE**  
 SCALE: 1" = 30'



**FISHER, COLLINS & CARTER, INC.**  
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
 9720 PATRIENT WOODS DRIVE  
 COLUMBIA, MD 21046  
 410-379-5956

**OWNER/DEVELOPER**  
 IN HOMES  
 9720 PATRIENT WOODS DRIVE  
 COLUMBIA, MD 21046  
 410-379-5956



**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. 20748, EXPIRATION DATE: 02/22/2019.  
 Signature of Professional Engineer: *Michael J. Vitucci*  
 DATE: 4/25/19

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
24	1030 FAIRLANE ROAD

**SEPTIC SYSTEM  
 INSTALLATION SITE PLAN  
 LOT 24  
 1030 FAIRLANE ROAD  
 FAIRLANE FARMS**

PHASE TWO  
 ZONED: RC-DEO  
 TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8  
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
 SCALE: 1" = 30' DATE: APRIL 23, 2018  
 SHEET 1 OF 1