



**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: 8-2-18 **ONSITE SEWAGE DISPOSAL SYSTEM** P 52970A

APPROVAL DATE: 10/2/18 SEC **PERMIT: CONSTRUCTION** A \_\_\_\_\_

PROPERTY ADDRESS: 1036 Fairlane Road

SUBDIVISION: Fairlane Farms LOT: 23 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

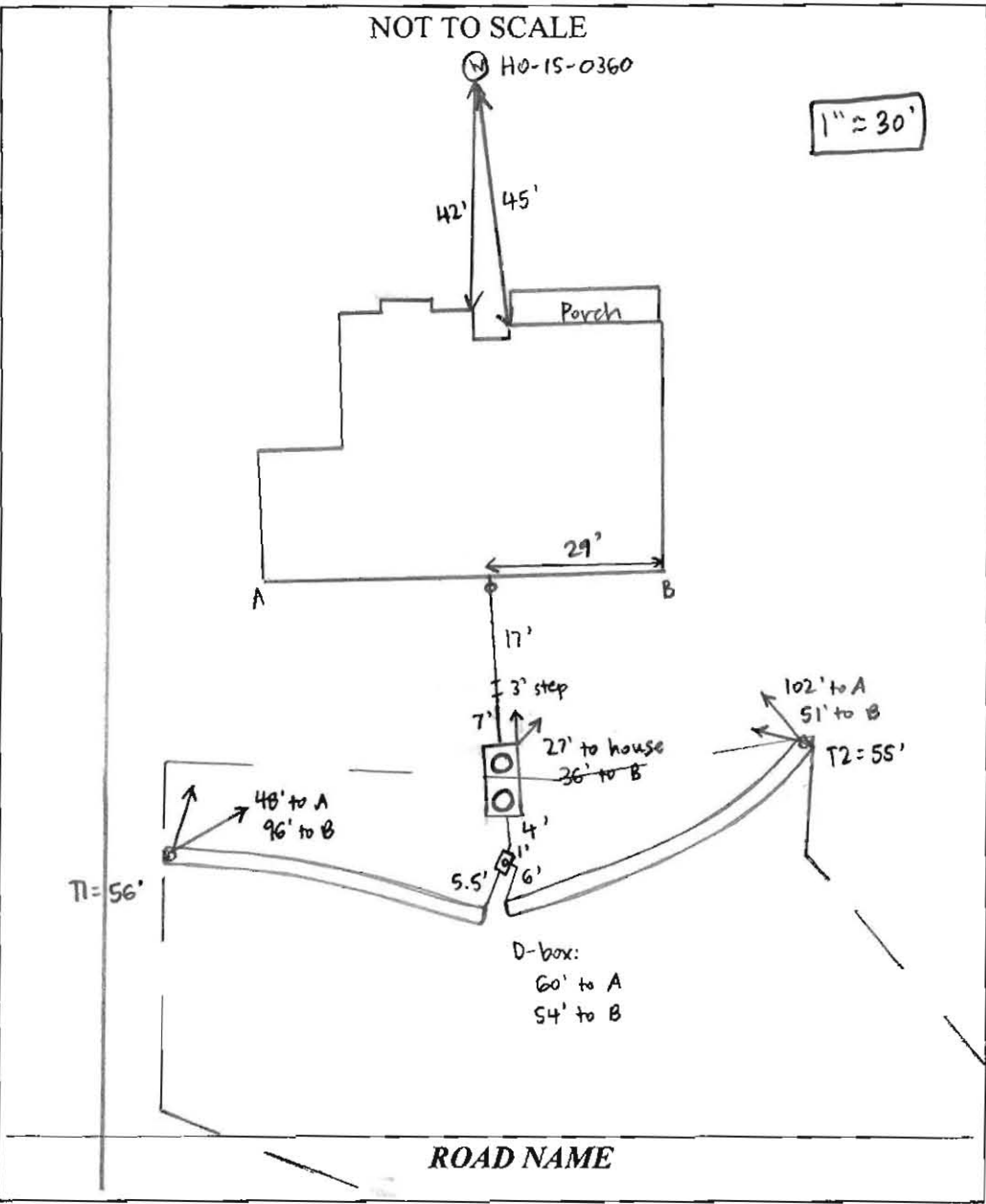
DISTRIBUTION SYSTEM:  GRAVITY  PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>111.56</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Hank Oswald ISSUE DATE: 8-2-18 EXPIRATION DATE: 8-2-19

- 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 DOWNGRADIENT 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 N/A
- 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.**



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
8'	3'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		111'
ABSORPTION AREA		333' + SIDEWALK
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	TOP
TANK LID DEPTH	1-3"
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	7-9-18
PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	
CAPACITY	GAL
SEAM LOC	
TANK LID DEPTH	
BAFFLES	
BAFFLE FILTER	
MANHOLE LOC	
6" PORT LOC	
WATERTIGHT TEST	
SLOTTED	
DATE ON LID	

**PRE-CONSTRUCTION:**  
 8/8/18 Met S. Carroll on site for layout. Tank + SDA corners staked. Shot contour + laid out 2x56' trenches. Moved tank away from house 7' to ensure it's out of 100' well arc. (SC)

**INSTALLATION:** 8/16/18 House connection made. Tank set + pipe laid from house to tank. T2 complete + left open for inspection, 3' wide and 2.5-3' to stone. (SC) 8/17/18 T1 finished + left open for inspection. 3' wide, 2.5' to stone. Levelled speed levelers in D-box. Pipe at house disconnected + capped off so plumber can jet out mud from line - verify sewer house connection after jetting. (SC) 8/24/18 Builder notified that house sewer line is reconnected. Pit filled with mud, cans see connection. Verify by running water in house + checking flow at first clo. (SC) 10/2/18 Ran water in house, saw flow at first clo outside house.

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 10/2/18

**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: <b>Hank</b> Fax: Phone: <b>410-313-2640</b>
-----------------------------------------------------------------------------------------------------------------	---------------------------------------------------------

From: <b>Tony Fertitta</b>	CC:
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Re: <b>Fairlane Farms, Lot 23</b>	W.O.# <b>05106-3003</b>
Date: <b>April 30, 2018</b>	Pages: <b>0</b> Page(s) Including this cover

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 23, 1036 Fairlane Rd.**

**Here are 3 new copies of the OSDS for Lot 23 with comments addressed, and ready for your approval. Please let me know if you have any questions.**

**Please leave a copy up front for pickup.**

**Thank You !**

**Tony.**

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

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## Oswald, Hank

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**From:** Oswald, Hank  
**Sent:** Wednesday, May 23, 2018 7:48 AM  
**To:** 'Tony Fertitta'  
**Subject:** OSDS Plan\_1036 Fairlane Drive

Hi Tony:

Good morning. I have a BP for 1036 Fairlane Drive (Lot 23). What's the status on the OSDS Plan?

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

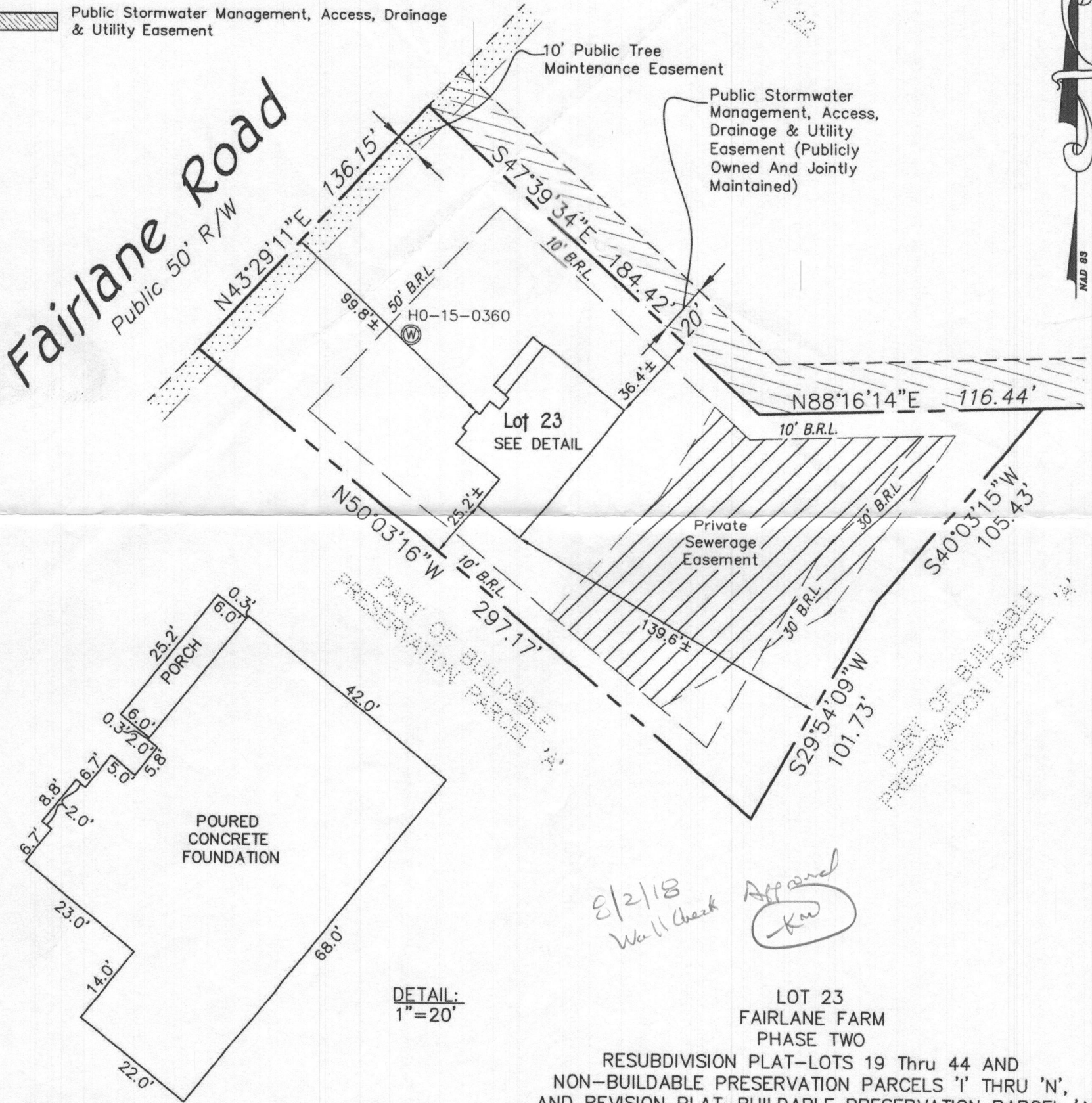
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**GENERAL NOTES:**

- 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 - 0360 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-18001673

**Legend**

-  10' Public Tree Maintenance Easement
-  Public Stormwater Management, Access, Drainage & Utility Easement



#1036 FAIRLANE ROAD  
 B.R.L. = BUILDING RESTRICTION LINE  
 TOP OF FOUNDATION ELEVATION = 604.6'±

LOT 23  
 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

**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*  
 PROPERTY LINE SURVEYOR  
 REG. #339

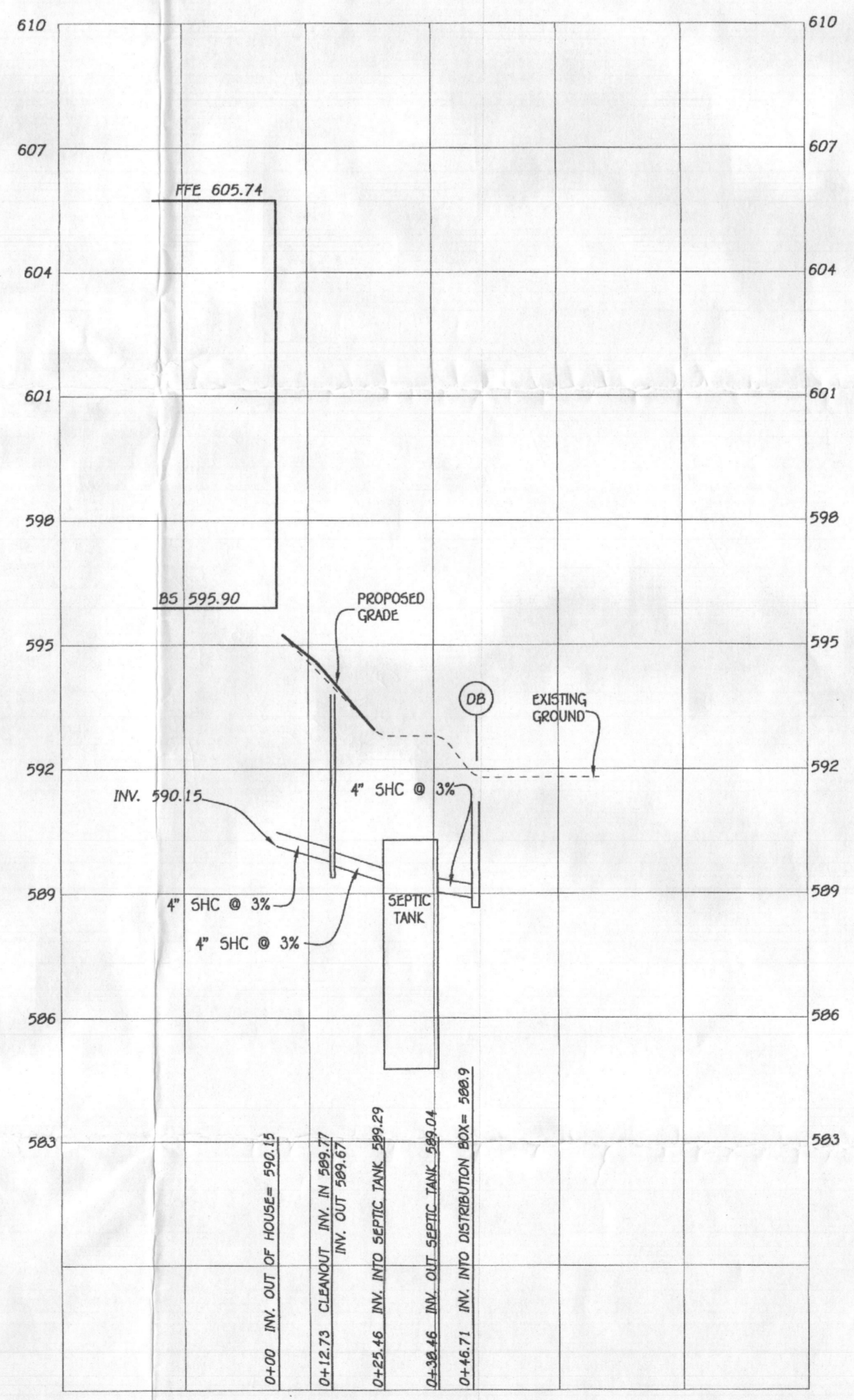
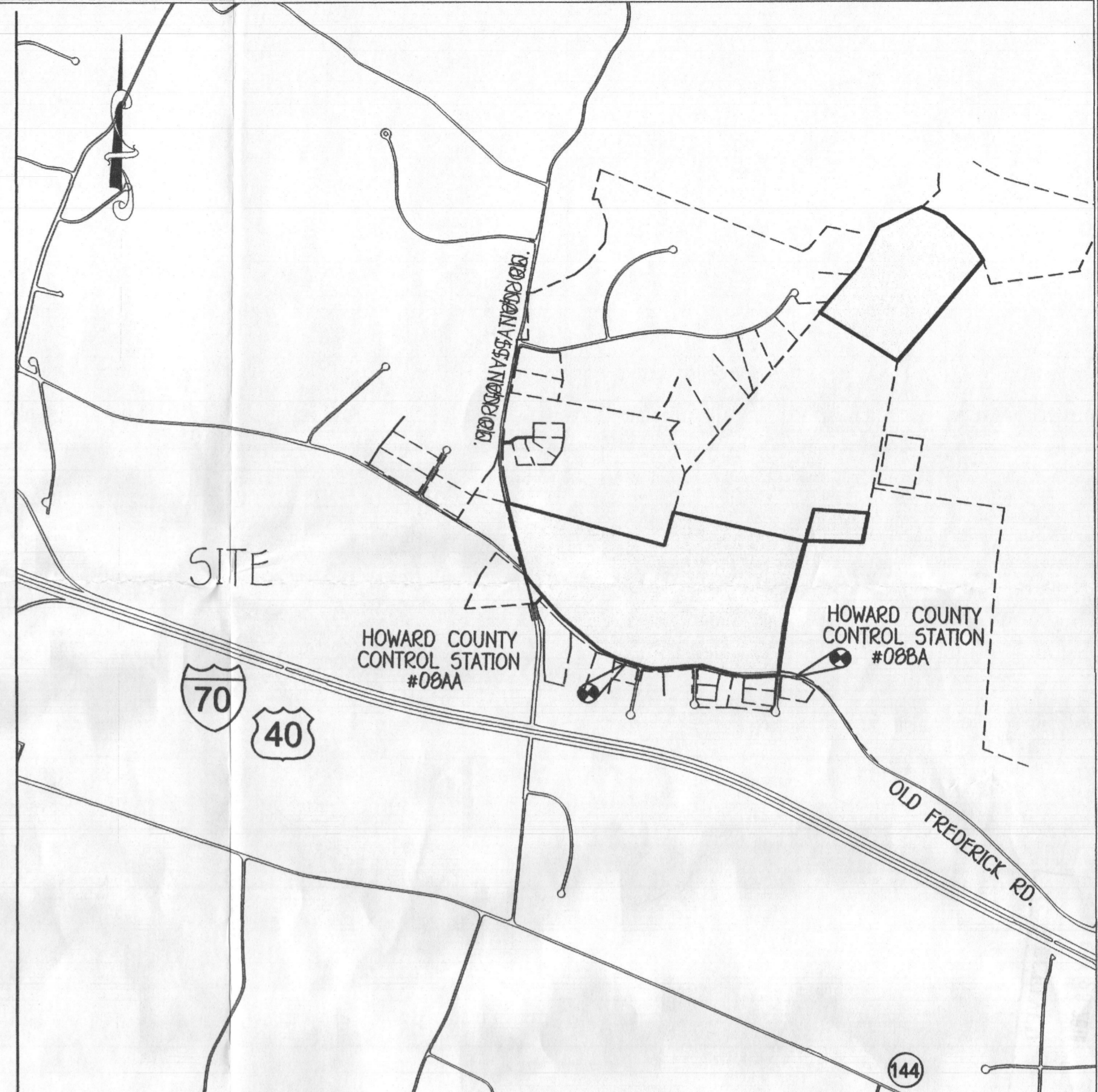
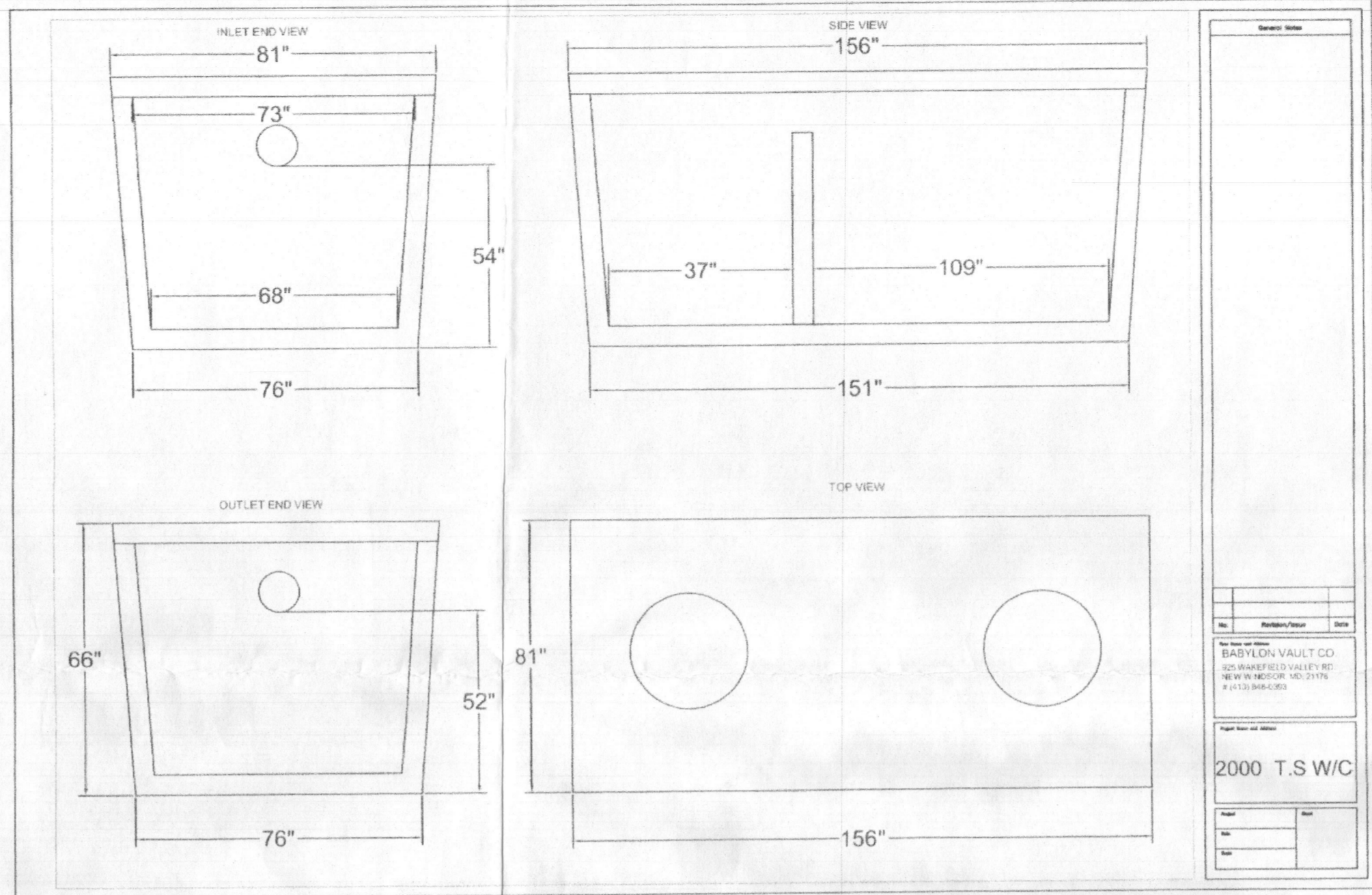
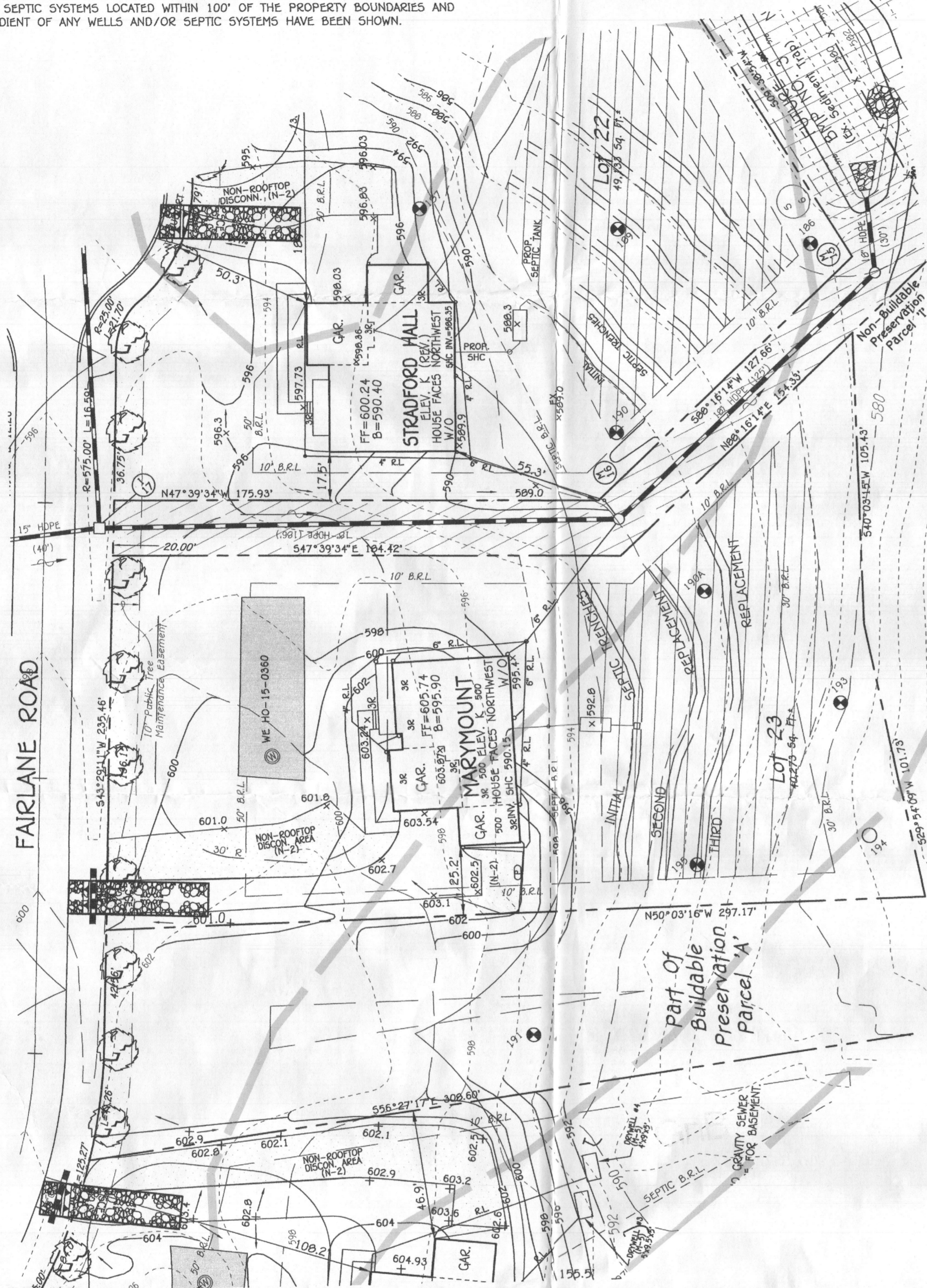
*6/28/18*  
 DATE

**HOUSE LOCATION  
 DRAWING**

FOUNDATION LOCATION: *6/27/18*  
 FINAL LOCATION:  
 BOUNDARY SURVEY:

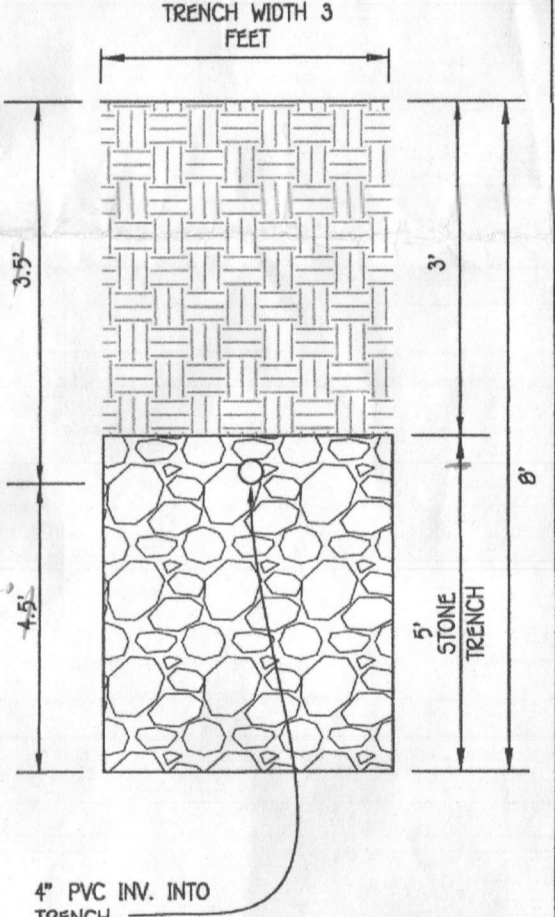
SCALE: 1"=50'  
 DATE: *6/28/18*  
 DRAWN BY: *MD*  
 CHECKED BY: *MLR*  
 PROJECT No.: *05106-3003*

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-15-0360 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.



FFE 605.74  
 BSE 595.90  
 INV. OUT OF HOUSE = 590.15  
 PROP. GROUND AT CLEANOUT #1 = 594.7  
 INV. INTO CLEANOUT = 589.77  
 INV. OUT OF CLEANOUT = 589.67  
 EX. GROUND AT SEPTIC TANK = 592.8  
 PROP. GRADE ABOVE SEPTIC TANK = 592.8  
 TOP OF SEPTIC TANK = 590.29  
 INV. INTO SEPTIC TANK = 589.29  
 INV. OUT OF SEPTIC TANK = 589.04  
 EX. GROUND AT DISTRIBUTION BOX = 591.8  
 INV. INTO DISTRIBUTION BOX = 588.9  
 INV. OUT OF DISTRIBUTION BOX = 588.8

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



TRENCH DATA:  
 TRENCH 1:  
 EX. GROUND ABOVE = 591.8  
 INV. IN = 588.8  
 BOTTOM TRENCH = 583.8  
 TRENCH 2:  
 EX. GROUND ABOVE = 591.8  
 INV. IN = 588.8  
 BOTTOM TRENCH = 583.8

**INITIAL SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 5 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+(2x5)) = 0.357  
 TRENCH LENGTH = 312.50 SF x 0.357 = 111.56 FEET  
 (USE 2 TRENCHES AT 55.78 L.F.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

**2ND REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 5 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+(2x5)) = 0.357  
 TRENCH LENGTH = 312.50 SF x 0.357 = 111.56 FEET  
 (USE 2 TRENCHES AT 55.78 L.F.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

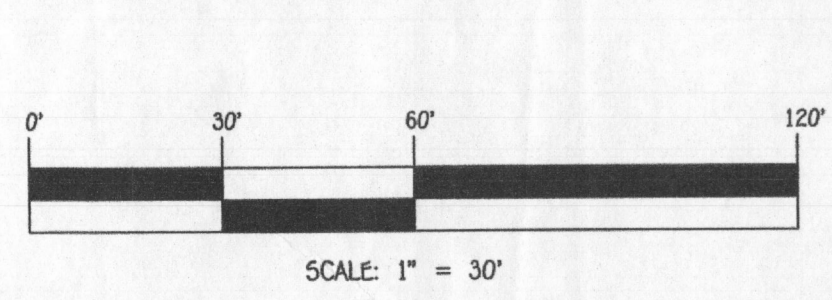
**1ST REPLACEMENT SYSTEM**  
 SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS (PERMIT FOR 4 BEDROOMS)  
 LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD  
 APPLICATION RATE = 0.8  
 EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
 TRENCH DEPTH = 8 FEET  
 TRENCH WIDTH (W) = 3 FEET  
 EFFECTIVE DEPTH (D) = 5 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+(2x5)) = 0.357  
 TRENCH LENGTH = 312.50 SF x 0.357 = 111.56 FEET  
 (USE 2 TRENCHES AT 55.78 L.F.)  
 TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

Approved Septic System Plan  
 Howard County Health Department  
*Gene Oswald* 5/25/18  
 Signature Date

**SEPTIC SYSTEM  
 INSTALLATION SITE PLAN  
 LOT 23  
 1036 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 30, 2018  
 SHEET 1 OF 1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
23	1036 FAIRLANE ROAD



**PLAN**  
 SCALE: 1" = 30'



**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.  
*Michael L. Pappas*  
 Signature of Professional Engineer  
 4/30/18  
 DATE

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

**FISHER, COLLINS & CARTER, INC.**  
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 CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
 ELICOTT CITY, MARYLAND 21042  
 (410) 461-2895

**OWNER/DEVELOPER**  
 NV HOMES  
 9720 PATUXENT WOODS DRIVE  
 COLUMBIA, MD 21046  
 410-373-5956

