



Howard County
Health Department

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

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

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

P 562997

APPROVAL DATE: 07/20/2018 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 1041 Fairlane Road

SUBDIVISION: Fairlane Farms

LOT: 19

TAX ID: _____

N/A

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: _____

N/A

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

1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104.17</u> <u>130.21'</u>	INLET DEPTH: <u>4'2'3'</u>
	TRENCH WIDTH: <u>3'</u>	MAXIMUM BOTTOM DEPTH: <u>7'6"</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4'</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	<u>Use 2 trenches at 65.0 LF.</u>	

ISSUED BY: Hank Oswald

ISSUE DATE: 5/18/18

EXPIRATION DATE: 5/18/19

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 _____

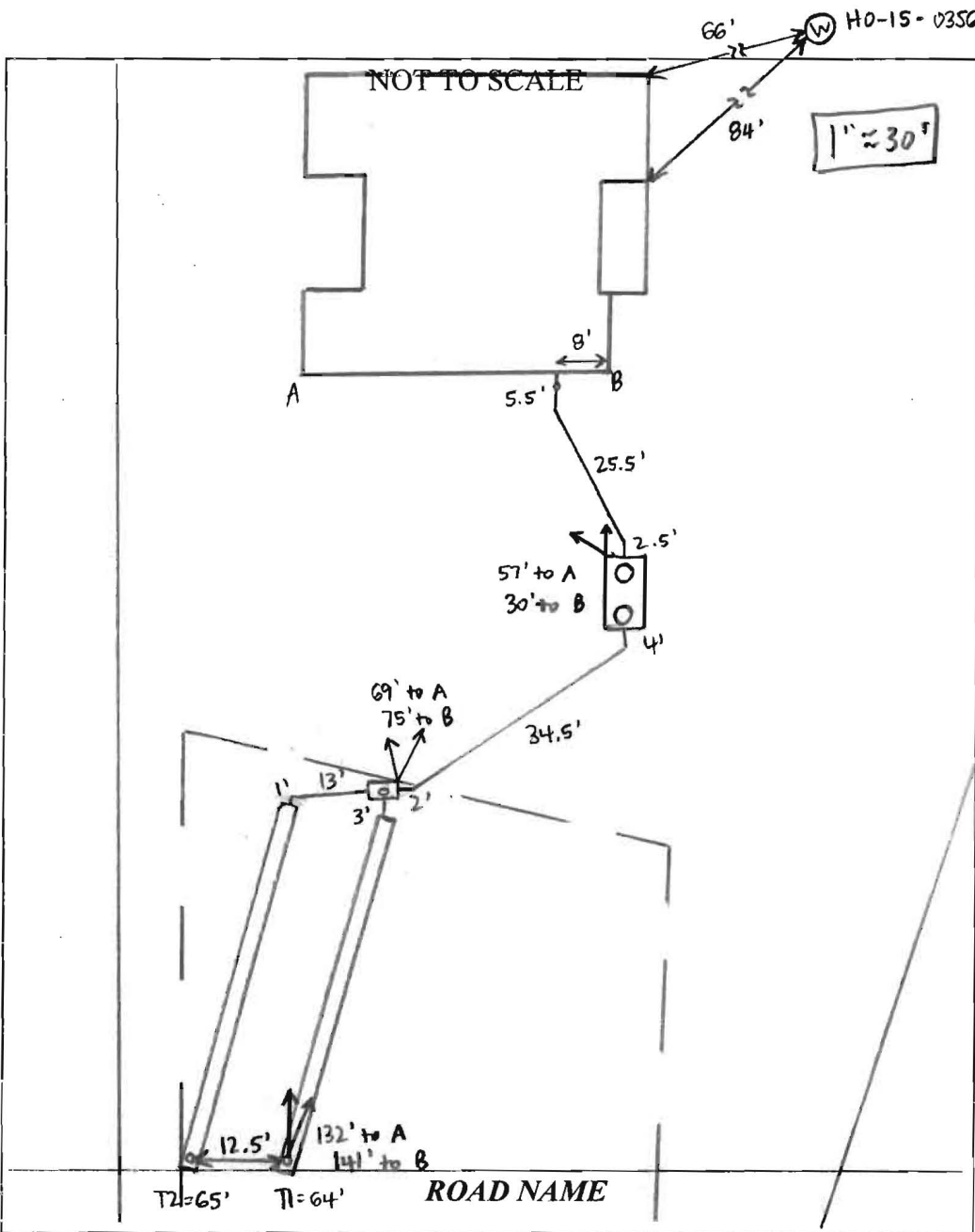
N/A

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
3'	3'	6'
NUMBER OF TRENCHES	2	
TOTAL LENGTH	129'	
ABSORPTION AREA	387' + SIDEWALL	
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	1.5'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	4-24-18

RUMP/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:

6/21/18 Met S. Carroll on site for layout. SDA corners + tank staked. Sewer line to come out 21" below top of wall in location shown on plan. Shot elevations: 71" at house sewer, 36" @ T1 start. Need 16" fall for 2% fall from house to T1. 71" + 16" = 87" → 3' to deep for 4' inlet @ T1 (36" + 48" = 84"). Will not make fall to T2 w/ 4' inlet. (S) 7/9/18 Met S. Carroll on site for layout. Shot elevations, tank moved ~5' closer to house to keep out of swale. Laid out 2 x 65' trenches at the bottom of the SDA. Need for SDA corner to be staked

INSTALLATION:

prior to trench install. (S) 7/10/18 Bottom SDA corner staked. Move trenches uphill to be away from swale @ bottom of SDA. OK for inlet to be 3'. Tank set + pipe laid from house to tank. Need house connection. (S) 7/12/18 Trenches complete. T1 left open @ ends for inspection, T2 left open. 3' wide, 2.5' to stone. leveled speed levelers in D-box. (S) 7/18/18 SHC NOT SEALED AT FOUNDATION OUTSIDE. (P) 7/19/2018 VISUAL OF SHC FOUNDATION SEAL. OK TO BACKFILL. (S)

FINAL INSPECTOR *[Signature]* DATE OF APPROVAL 07/20/2018

Oswald, Hank

From: Oswald, Hank
Sent: Monday, June 25, 2018 9:57 AM
To: Collins, Sarah; Dave Harward, III; Tony Fertitta (tonyf@fcc-eng.com)
Subject: RE: Fairlane Farm lots 19 and 20

Hi Tony:

I spoke to Jeff about Lot 19. If you don't want a pump tank, then install the initial system at the very bottom of the SDA. If you add a pump tank then install the first system at the very top of the SDA. If you decide on not adding a pump tank, we would still like to see how one fits on the plan. You may label it future pump tank for replacement systems. Send me a revised pdf copy for review prior to sending hard copies.

Let me know if you have any questions.

Thanks,

Hank

From: Collins, Sarah
Sent: Friday, June 22, 2018 7:53 AM
To: Dave Harward, III; Tony Fertitta (tonyf@fcc-eng.com)
Cc: Oswald, Hank
Subject: Fairlane Farm lots 19 and 20

Hi Dave and Tony,

I was at lots 19 and 20 of Fairlane Farm yesterday with South Carroll to layout the septic systems and had issues with fall. At lot 19, we cannot make the 4' inlet at the trenches with 2% fall in the pipe. The lowest the sewer line can be hung is 21" below top of foundation wall. We shot 71" relative elevation at the house sewer and 36" at the start of the first trench. It's an 80' run from the house to the first trench, so 19" fall for 2%. $71+19 = 90''$, which would be $90-36 = 54''$ at the first trench. The inlet at the second trench would be deeper because that trench starts at the end of the first trench. The current location of the tank is also near the swale cut into the yard near the SDA. If a pump tank is used, it would be better to put the tank and pump tank closer to the street in native soil (septic tank is currently surrounded by fill).

At lot 20, the plan shows a hung sewer. The sewer line is actually coming out under a frost-proof footer, so likely already 3' deep at the house. We won't be able to make fall to the 3' inlet at the center of the SDA.

Thanks,
Sarah

Sarah Collins, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
SCollins@howardcountymd.gov
410-313-6287

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HOWARD COUNTY HEALTH DEPARTMENT

15-62997

DATE 5/18/18

South Carroll Backhoe

PHONE # 410-596-3618

CASH CHECK 00

For 1030 Fairlane Road, 1041 Fairlane Road, 1045 Fairlane Road, 15328 Colony Drive, 12410-Hillcrest (Septic Permits) One thousand nine hundred & eighty - Dollars

1980 00

Received By V. Delaney

**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: Bureau of Environmental Health 8930 Stanford Blvd. Columbia, Maryland 21046-4544	Attn: Hank Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 19	W.O.# 05106-3003
Date: July 5, 2018	Pages: 0 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 19, 1041 Fairlane Rd.

Here are 3 new copies of the OSDS for Lot 19 for your review. Please let me know if you have any questions.

Thank You,

Tony.

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

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FISHER, COLLINS & CARTER, INC.

CIVIL ENGINEERING CONSULTANTS
and LAND SURVEYORS

Transmittal

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To: Bureau of Environmental Health 8930 Stanford Blvd. Columbia, Maryland 21046-4544	Attn: Hank Fax: Phone: 410-313-2640
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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 19	W.O.# 05106-3003
Date: April 4, 2018	Pages: 0 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

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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: 1041 Fairlane Road
Fairlane Farms, Lot 19

Date: April 2, 2018

The OSDS Plan for 1041 Fairlane Road has been reviewed with the following comments:

- 1.) Well box does not meet 10 foot setback to driveway.
- 2.) 18x 18 Storm water inlet grate does not meet 50 foot setback to well box.
- 3.) "Septic Profile" invert elevations out of house do not match (591.81 vs. 592.05).
- 4.) "Septic Profile" elevations do not match list of elevations next to trench detail.
- 5.) "Septic profile" length of pipe to first clean out (20 ft.) does not match length of pipe to clean out on plan layout (16 ft.).

Oswald, Hank

From: Oswald, Hank
Sent: Monday, April 02, 2018 9:43 AM
To: 'Tony Fertitta'
Subject: OSDS Plan_1041 Fairlane Road
Attachments: OSDS Memo To FCC_2018.pdf

Hi Tony:

Attached, please find memo pertaining to OSDS Plan for 1041 Fairlane Road.

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

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

From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 19	W.O.# 05106-3003
Date: March 27, 2018	Pages: 0 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:

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Thank You,

Tony.

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From: Tony Fertitta	CC:
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Re: Fairlane Farms, Lot 19	W.O.# 05106-3003
Date: March 27, 2018	Pages: 0 Page(s) Including this cover

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Oswald, Hank

From: Oswald, Hank
Sent: Monday, February 26, 2018 2:49 PM
To: 'Dave Harward, III'
Subject: RE: Fairlane Farms, Lot 19
Attachments: 05106-3003 PermitPlan Lot 19.pdf

Hi Dave:

We are fine with this layout.

Thanks,

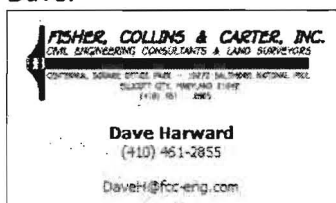
Hank

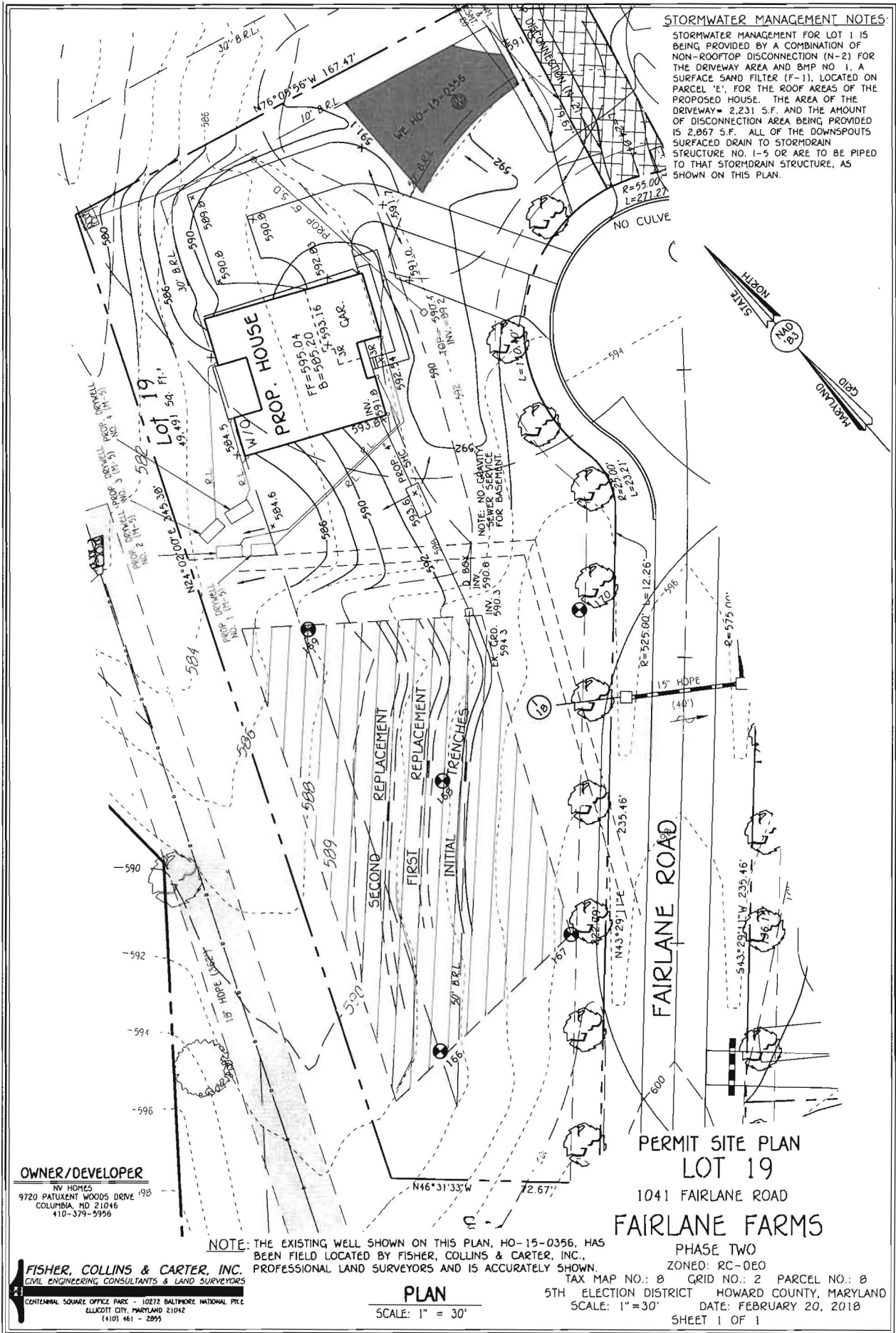
From: Dave Harward, III [<mailto:DaveH@fcc-eng.com>]
Sent: Tuesday, February 20, 2018 4:40 PM
To: Oswald, Hank
Subject: Fairlane Farms, Lot 19

Hank,

Tony had sent you a preliminary siting on this lot and ran by the trench layout that had the initial septic trenches situated over 20 ft. lower in the septic area because we thought that was going to be necessary to enable this house to have gravity sewer service for the first floor. You had showed that to Jeff Williams and he didn't like not utilizing more of the upper portion of the septic area, despite 3 systems easily fitting within the approved septic area. However I have finalized the siting and revised the trench layout (see the attached), showing the initial septic trench starting about 22 ft. further up the septic area (at the top of the closest corner to the house of the approved septic area. This enables a 4th system to easily fit below the 3 that have been laid out and is certainly in line with many of the other lots approved previously. Since you looked at this before with the layout of the septic trenches so low in the field, I just wanted to run this by you and make sure you agree, that this is a big improvement and works well. There is no sense in having a whole house pump system when it's not necessary. Not just for cost, but because of reliance on power and the potential for maintenance headaches for the homebuyer.

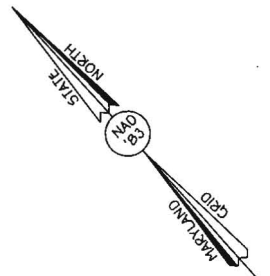
Thanks for your help as always,
Dave.





STORMWATER MANAGEMENT NOTES:

STORMWATER MANAGEMENT FOR LOT 1 IS BEING PROVIDED BY A COMBINATION OF NON-ROOFTOP DISCONNECTION (N-2) FOR THE DRIVEWAY AREA AND BMP NO. 1-A SURFACE SAND FILTER (F-1), LOCATED ON PARCEL 1E. FOR THE ROOF AREAS OF THE PROPOSED HOUSE. THE AREA OF THE DRIVEWAY = 2,231 S.F. AND THE AMOUNT OF DISCONNECTION AREA BEING PROVIDED IS 2,067 S.F. ALL OF THE DOWNSPOUTS SURFACED DRAIN TO STORMDRAIN STRUCTURE NO. 1-5 OR ARE TO BE PIPED TO THAT STORMDRAIN STRUCTURE, AS SHOWN ON THIS PLAN.



OWNER/DEVELOPER
 NV HOMES
 9720 PATUXENT WOODS DRIVE #9B
 COLUMBIA, MD 21046
 410-379-5956

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELKLOTT CITY, MARYLAND 21042
 (410) 461 - 2299

NOTE: THE EXISTING WELL SHOWN ON THIS PLAN, HO-15-0356, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

PLAN

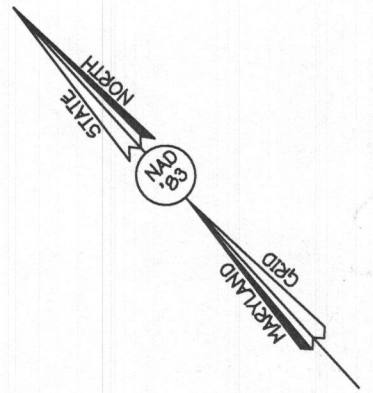
SCALE: 1" = 30'

PERMIT SITE PLAN
LOT 19
 1041 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: FEBRUARY 20, 2018
 SHEET 1 OF 1

STORMWATER MANAGEMENT NOTES:

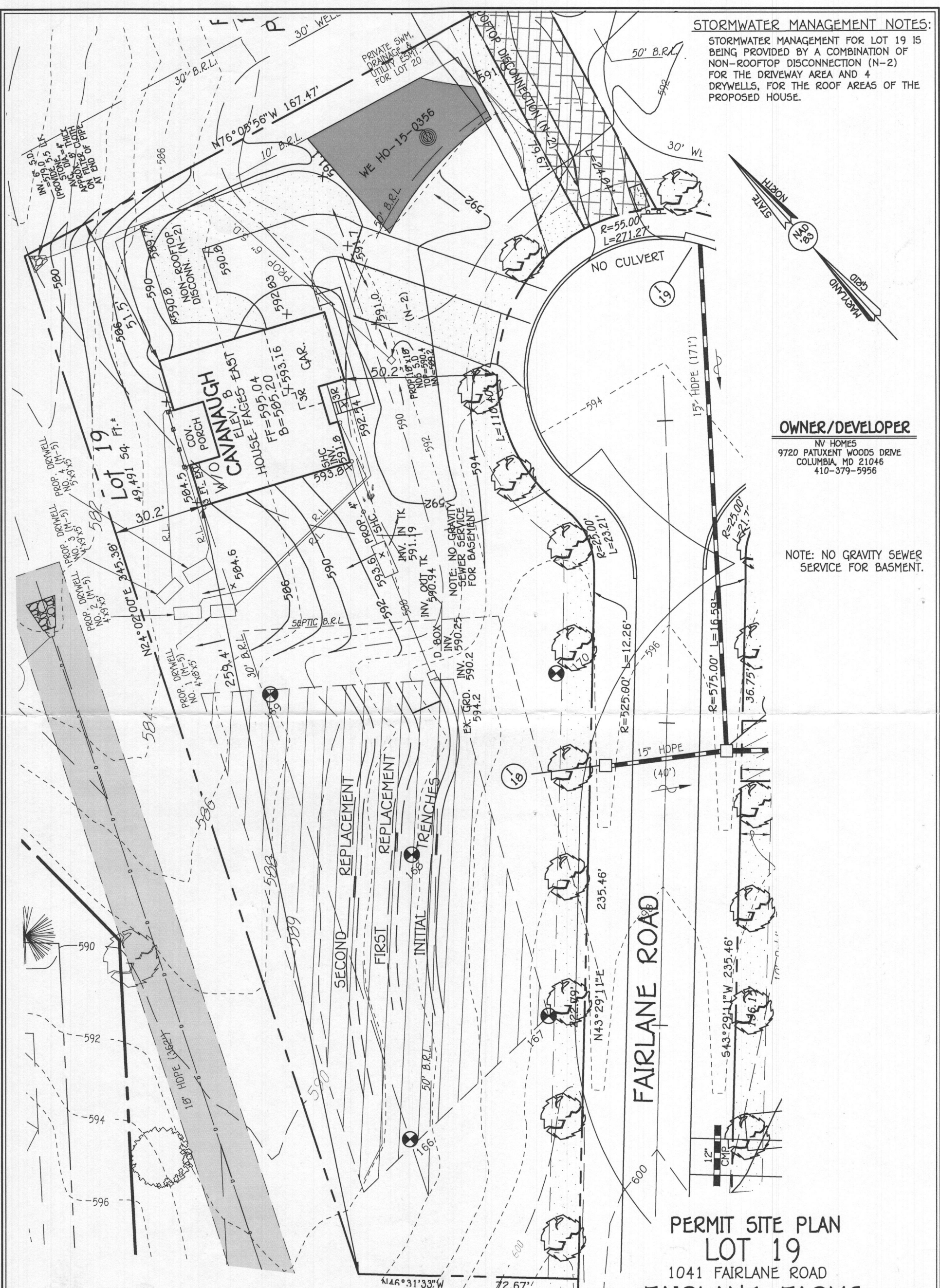
STORMWATER MANAGEMENT FOR LOT 19 IS BEING PROVIDED BY A COMBINATION OF NON-ROOFTOP DISCONNECTION (N-2) FOR THE DRIVEWAY AREA AND 4 DRYWELLS, FOR THE ROOF AREAS OF THE PROPOSED HOUSE.



OWNER/DEVELOPER

NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956

NOTE: NO GRAVITY SEWER SERVICE FOR BASMENT.



NOTE: THE EXISTING WELL SHOWN ON THIS PLAN, HO-15-0356, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 481-2955

PLAN

SCALE: 1" = 30'

**PERMIT SITE PLAN
LOT 19
1041 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

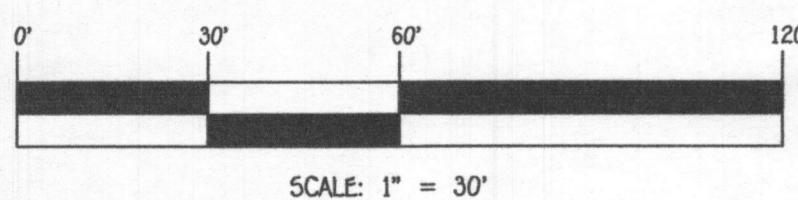
SCALE: 1"=30' DATE: MARCH 1, 2018

SHEET 1 OF 1

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-15-0356 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.
6. IF FUTURE WELL IS LOCATED CLOSER THAN 10 FEET TO THE DRIVEWAY, THEN BOLLARDS MUST BE PLACED TO PROTECT THE NEW WELL.

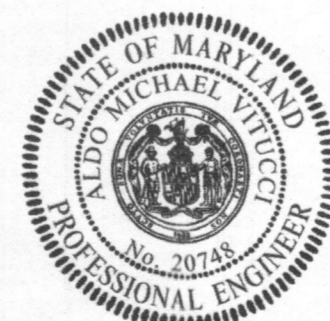


PLAN
SCALE: 1" = 30'



FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 441-2892

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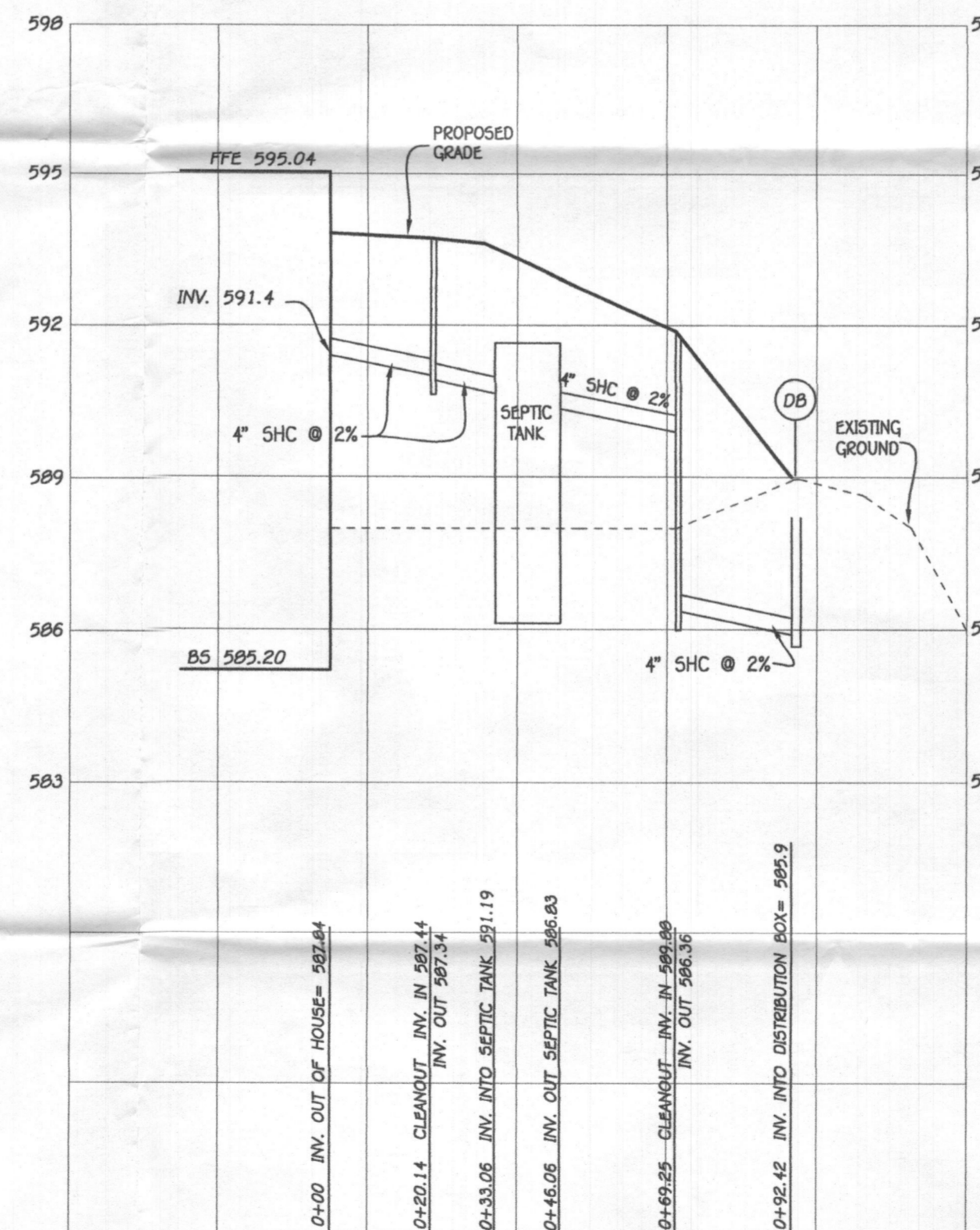
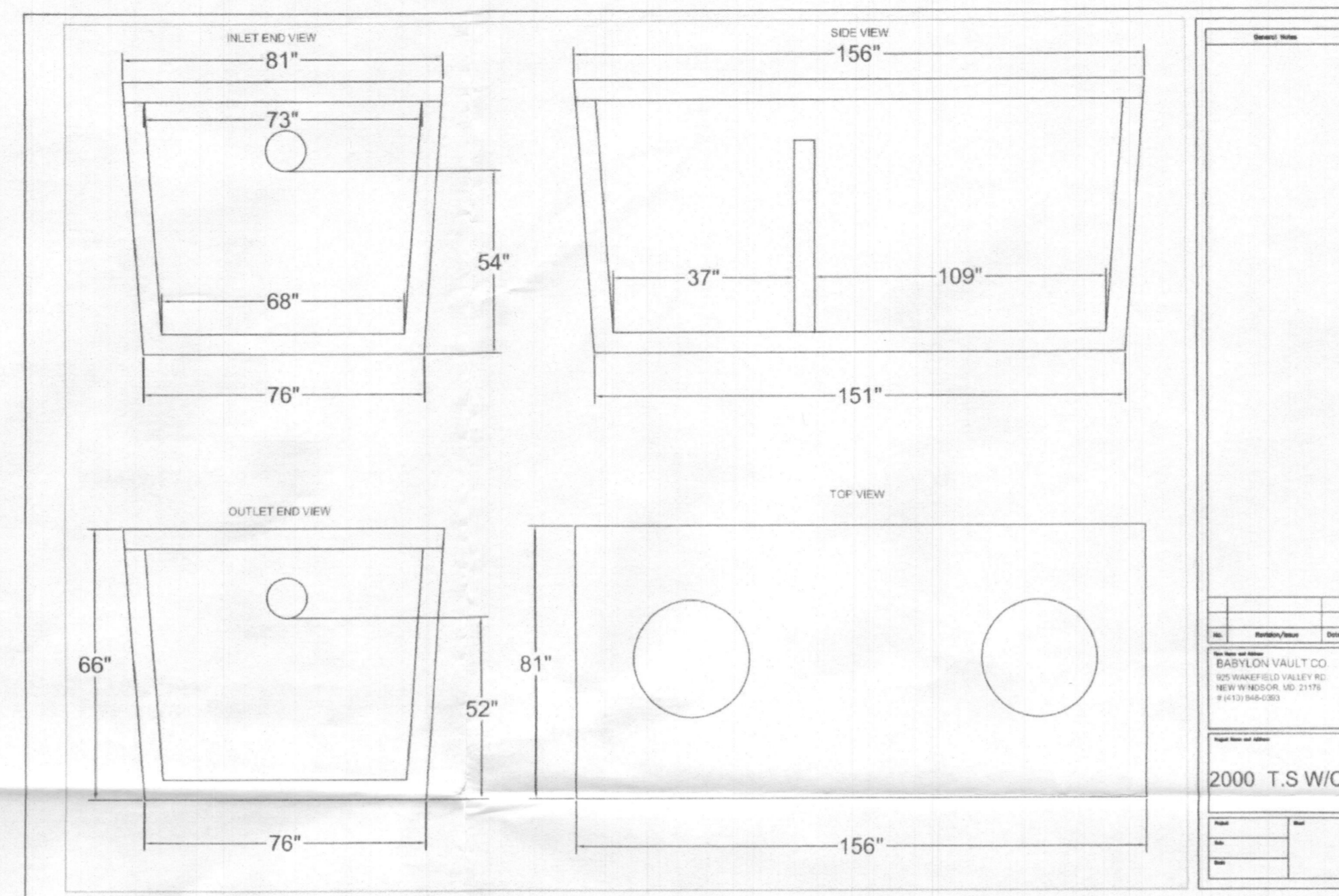


PROFESSIONAL CERTIFICATION

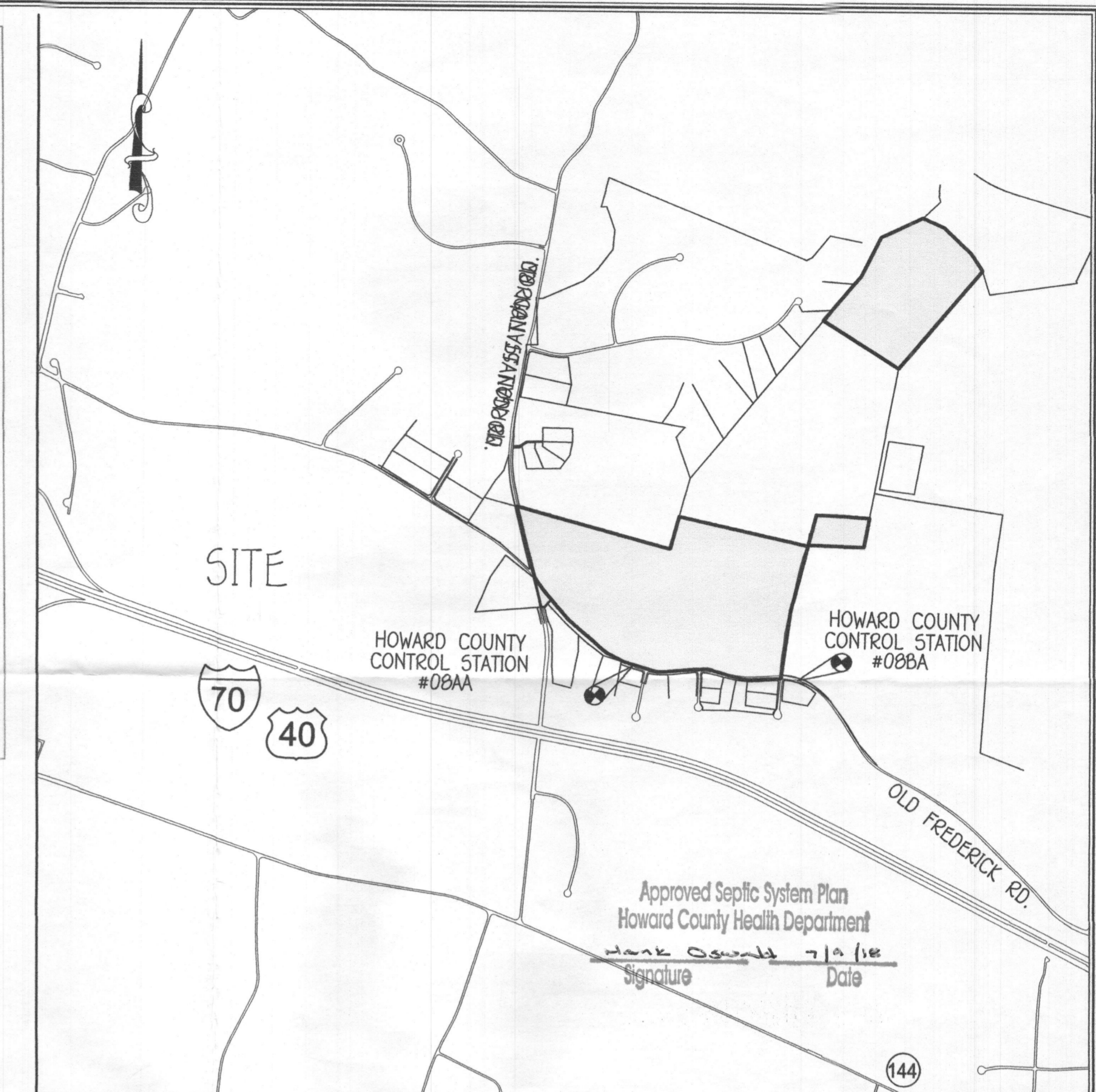
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2019.

Michael J. Letic
Signature of Professional Engineer

7/5/19
DATE



SEPTIC PROFILE
SCALE: 1" = 30'



VICINITY MAP

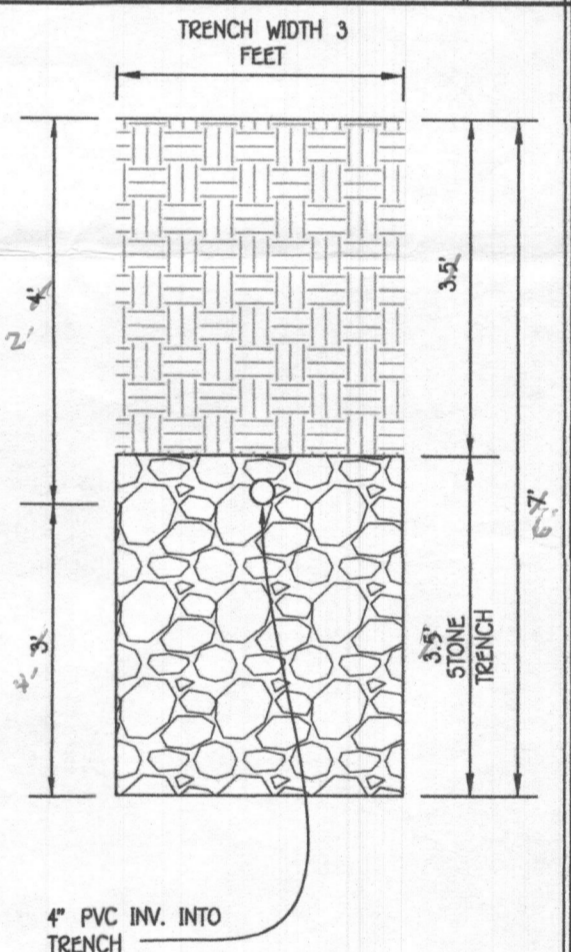
SCALE: 1" = 1200'

FFE 595.04
BSE 585.20
INV. OUT OF HOUSE = 591.4
PROP. GROUND AT CLEANOUT #1 = 593.7
INV. INTO CLEANOUT = 591.0
INV. OUT OF CLEANOUT = 590.9
EX. GROUND AT SEPTIC TANK = 588.0
PROP. GRADE ABOVE SEPTIC TANK = 593.6
TOP OF SEPTIC TANK = 591.64
INV. INTO SEPTIC TANK = 590.64
INV. OUT OF SEPTIC TANK = 590.34
PROP. GROUND AT CLEANOUT #2 = 590.0
INV. INTO CLEANOUT = 589.88
EX. GROUND AT DISTRIBUTION BOX = 589.8
INV. INTO DISTRIBUTION BOX = 589.9
INV. OUT OF DISTRIBUTION BOX = 585.8

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 589.8
INV. IN = 585.8
BOTTOM TRENCH = 583.8

TRENCH 2:
EX. GROUND ABOVE = 588.0
INV. IN = 584.0
BOTTOM TRENCH = 582.0



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

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 = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 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+(2x3)) = 0.5
TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET
(USE 2 TRENCHES AT 52.08 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 = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3 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+(2x3)) = 0.5
TRENCH LENGTH = 208.33 SF x 0.5 = 104.17 FEET
(USE 2 TRENCHES AT 52.08 L.F.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

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 = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 208.33 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = (W+2)/(W+1+2D) = (3+2)/(3+1+(2x2)) = 0.5
TRENCH LENGTH = 208.33 SF x 0.5 = 130.21 FEET
(USE 2 TRENCHES AT 65.10 L.F.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

**SEPTIC SYSTEM
INSTALLATION SITE PLAN**

LOT 19
1041 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: JULY 4, 2018
SHEET 1 OF 1

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
19	1041 FAIRLANE ROAD

