

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: 2/28/18 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 562910

APPROVAL DATE: 5/30/18 SEC **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15321 Galaxy Drive

SUBDIVISION: Fairlane Farms LOT: 6 TAX ID: 04-599999

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: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>94.79</u>	INLET DEPTH: <u>4</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>4.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 trenches @ <u>86.87LF</u> <u>48' each.</u>	

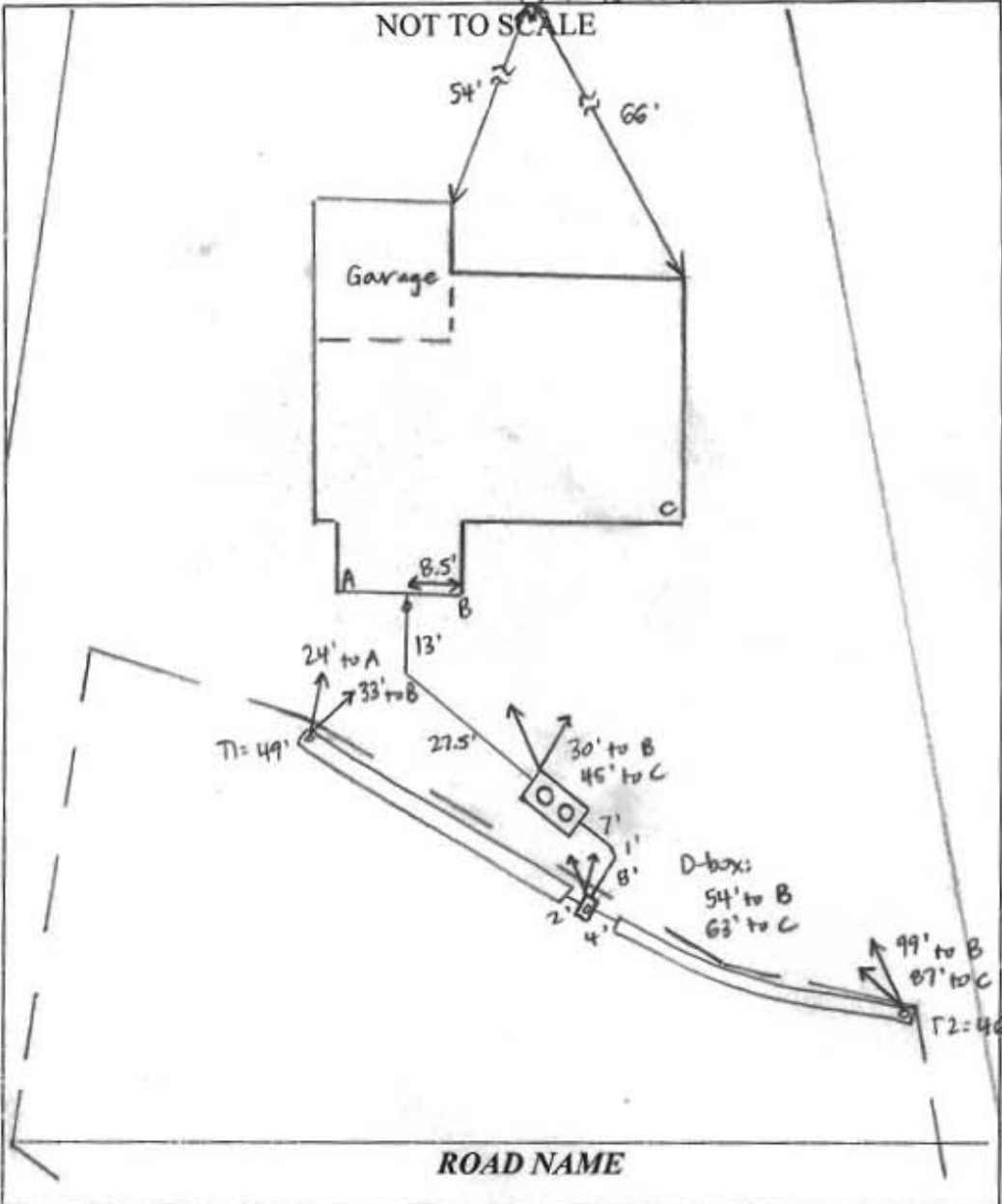
ISSUED BY: Hank Oswald ISSUE DATE: 2/28/18 EXPIRATION DATE: 2/28/19

- 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.**

W 10-15-0341

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	8'
NUMBER OF TRENCHES		2
TOTAL LENGTH		95'
ABSORPTION AREA		205' + 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	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	1-26-18

PUMP/SEPTIC TANK LEVEL	
MANUFACTURER	_____ GAL
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

3/16/18 Met S. Carroll on site for layout. All upper SDA stakes present, some lower SDA corner stakes missing. Shot contour + laid out 2 x 48' trenches. Sewer line @ house uncovered, line will make fall to tank w/ < 3' cover. (S)

INSTALLATION: 3/19/18 Tank set - house connection made. T2 dug + left open @ ends for inspection. S. Carroll adding stone to T2. Levelled speed levelers in D-box. Verify that drywells meet 25' setback to tank + SDA prior to permit approval. (S)

5/30/18 Drywells installed per plan, >25' from SDA. (S)

Transmittal

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 6	W.O.# 05106-3003
Date: Jan. 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 6, 15321 Galaxy Dr.

Provided here are 3 copies of a Septic Installation Site Plan for Lot 6, for your review/approval. Please leave 1 signed copy up front for us if approved as is.

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-15-0341 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-17004491

Legend

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

Public And Private Drainage & Utility Easement Line Table

LINE	BEARING	LENGTH
D1	S38°42'10"E	91.15'
D2	S52°40'50"W	00.11'
D3	S35°45'55"E	20.01'
D4	N52°40'50"E	07.12'



LOTS 1 THRU 10, BUILDABLE PRESERVATION PARCEL 'A', NON-BUILDABLE PRESERVATION PARCELS 'B' THRU 'E', PARCEL 'F', NON-BUILDABLE BULK PARCELS 'G' AND 'H' AND FOREST MITIGATION BANK
 PLAT NOS. 24251 THRU 24259
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

#15321 GALAXY DRIVE
 B.R.L. = BUILDING RESTRICTION LINE
 TOP OF FOUNDATION ELEVATION = 598.5±

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



Mark L. Robel
 PROPERTY LINE SURVEYOR
 REG. #339
 DATE: 2/13/18

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 2/1/18
 FINAL LOCATION: _____
 BOUNDARY SURVEY: _____

SCALE: 1"=50'
 DATE: 2/13/18
 DRAWN BY: MSD
 CHECKED BY: MLR
 PROJECT No.: 05106-3003

Drawing Name:

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PLAN
SCALE: 1" = 30'



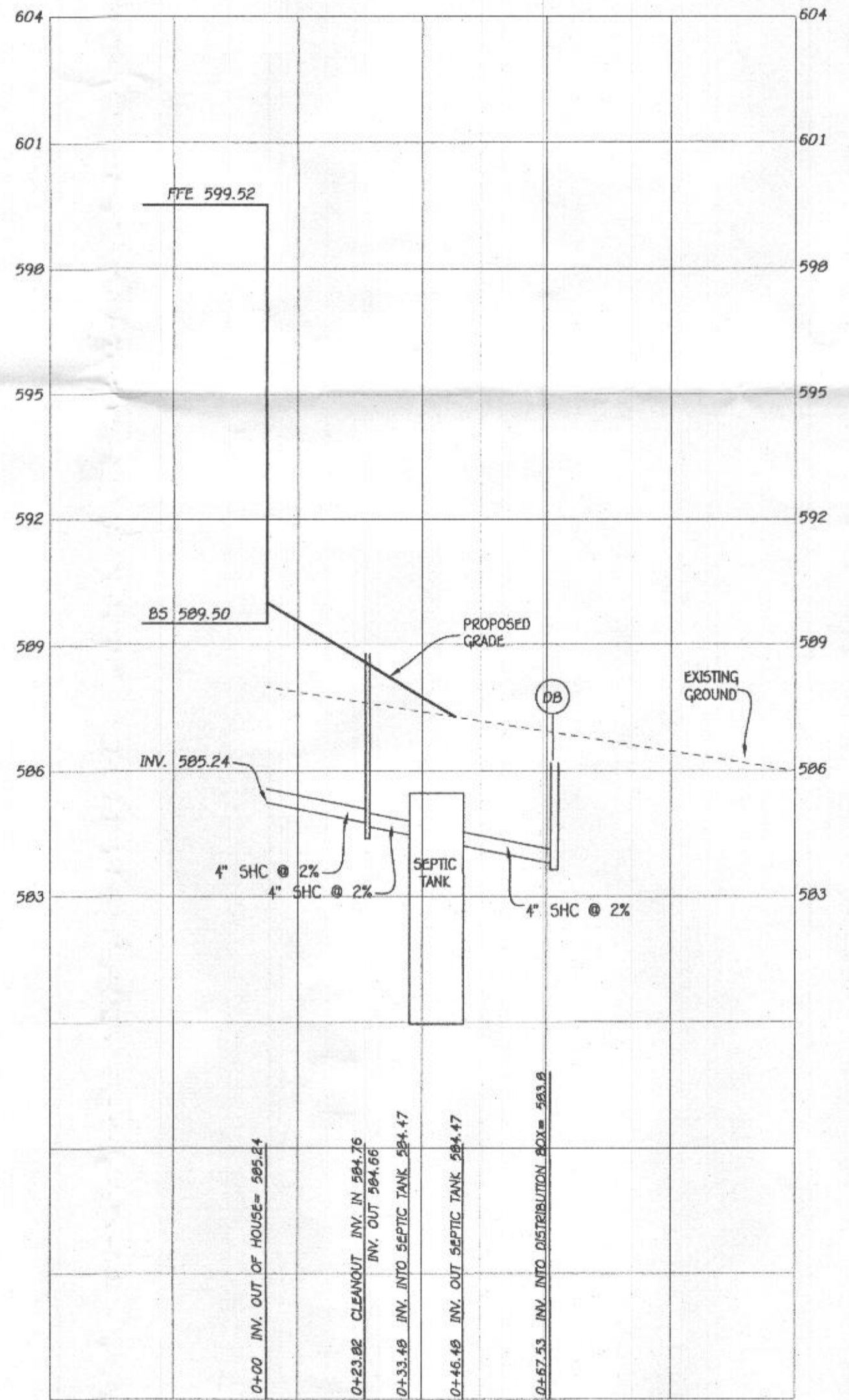
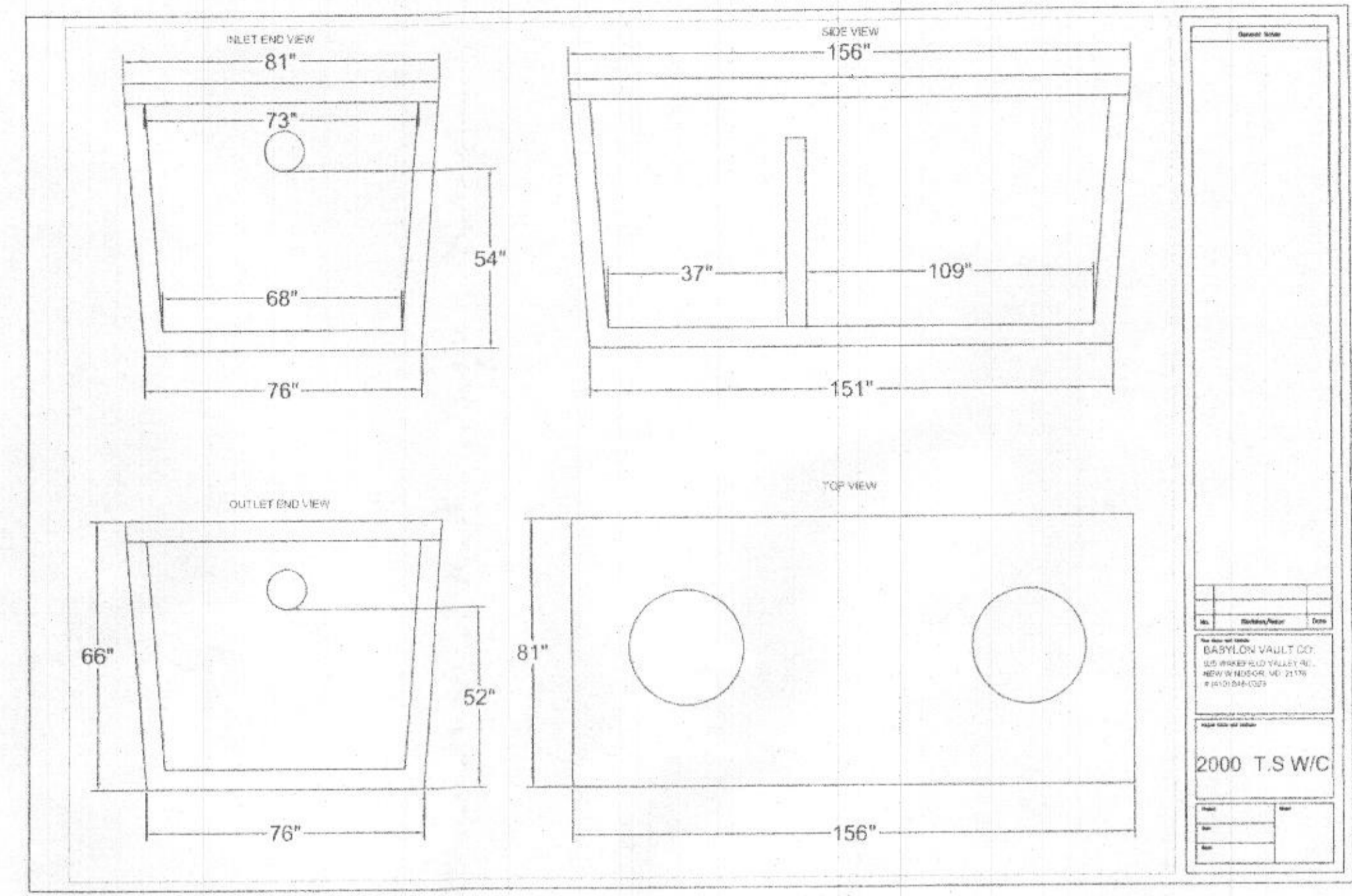
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20740, EXPIRATION DATE: 02/22/2019.

Michael J. Vitucci
Signature of Professional Engineer

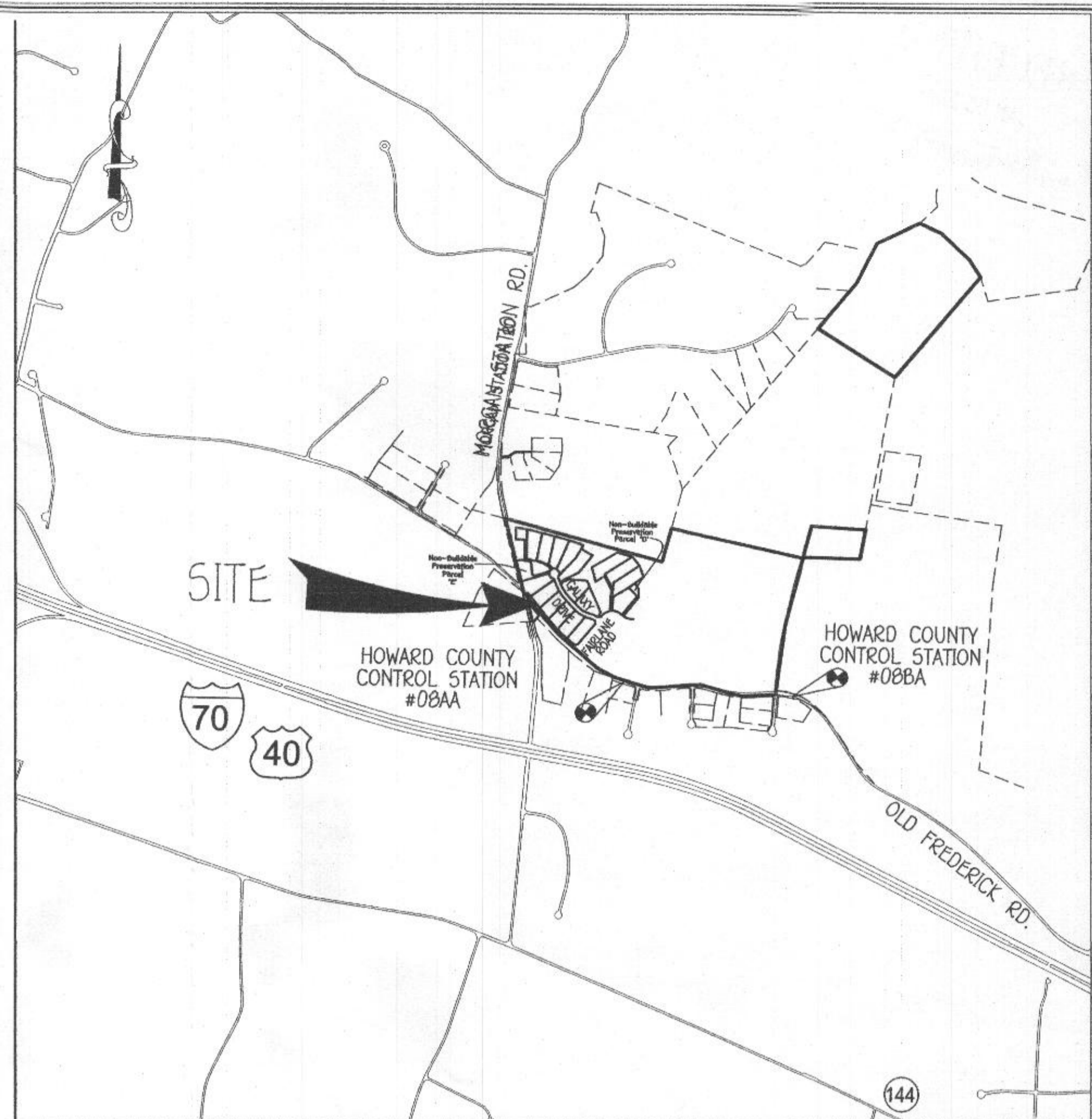
1/5/19
DATE

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

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
13000 SOUTHWEST SQUARE OFFICE PARK - 10022 BALDORNE NATIONAL PARK
ELICOTT CITY, MARYLAND 21042
410-461-2295



SEPTIC PROFILE
SCALE: 1" = 30'

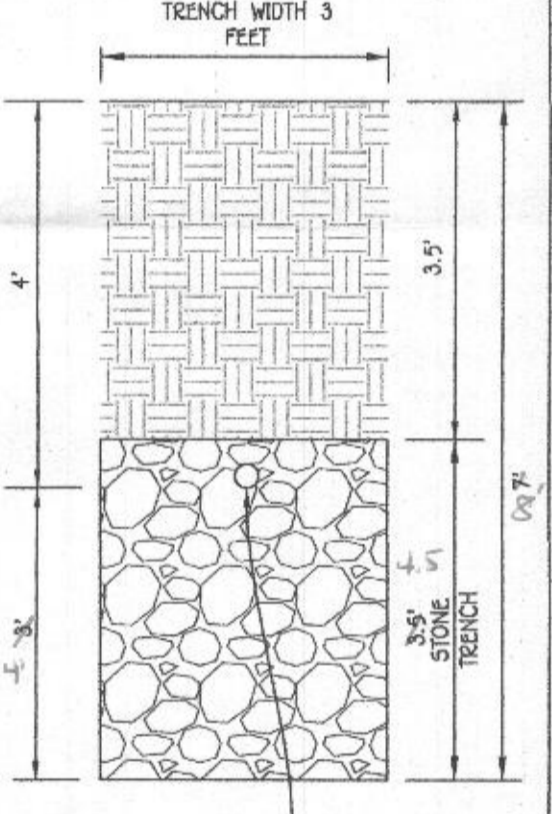


VICINITY MAP
SCALE: 1" = 1200'

FFE 599.52
BSE 589.50
INV. OUT OF HOUSE = 585.24
PROP. GROUND AT CLEANOUT #1 = 588.0
INV. INTO CLEANOUT = 584.76
INV. OUT OF CLEANOUT = 584.66
EX. GROUND AT SEPTIC TANK = 588.2
PROP. GRADE ABOVE SEPTIC TANK = 588.2
TOP OF SEPTIC TANK = 585.47
INV. INTO SEPTIC TANK = 584.47
INV. OUT OF SEPTIC TANK = 584.22
EX. GROUND AT DISTRIBUTION BOX = 587.8
INV. INTO DISTRIBUTION BOX = 583.8
INV. OUT OF DISTRIBUTION BOX = 583.7

Approved Septic System Plan
Howard County Health Department
Mark Oswald
Signature Date

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 587.8
INV. IN = 583.75'
BOTTOM TRENCH = 575.7
579.5
TRENCH 2:
EX. GROUND ABOVE = 587.8
INV. IN = 583.75'
BOTTOM TRENCH = 575.7
579.8



INITIAL TRENCH DETAIL
SCALE: 1" = 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 4.5 FEET
TRENCH DEPTH = 0 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 3.5 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+(2x3.5)) = 0.455
TRENCH LENGTH = 208.33 SF x 0.455 = 94.79 FEET
(USE 2 TRENCHES AT 47.40 L.F.)
TRENCH SPACING = 2D+W = (2x3) + 3 = 9' 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 5 FEET
TRENCH DEPTH = 7 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)) = 0.455
TRENCH LENGTH = 312.50 SF x 0.455 = 195.31 FEET
(USE 4 TRENCHES AT 48.83 L.F.)
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TRENCH LENGTH = 312.50 SF x 0.455 = 142.19 FEET
(USE 3 TRENCHES AT 47.40 L.F.)
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**SEPTIC SYSTEM
INSTALLATION SITE PLAN
LOT 6
15321 GALAXY DRIVE
FAIRLANE FARMS**

PHASE ONE
ZONED: RC-DEO
TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: DEC. 21, 2017
SHEET 1 OF 1

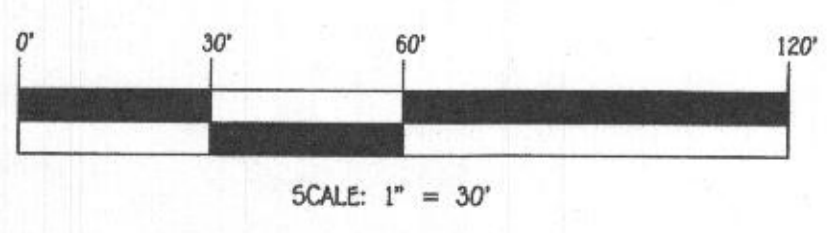
ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
6	15321 GALAXY DRIVE

1320505106.dwg/Permit Plans/05106 Septic Plan Lot 6.dwg, Sheet (1) of 1

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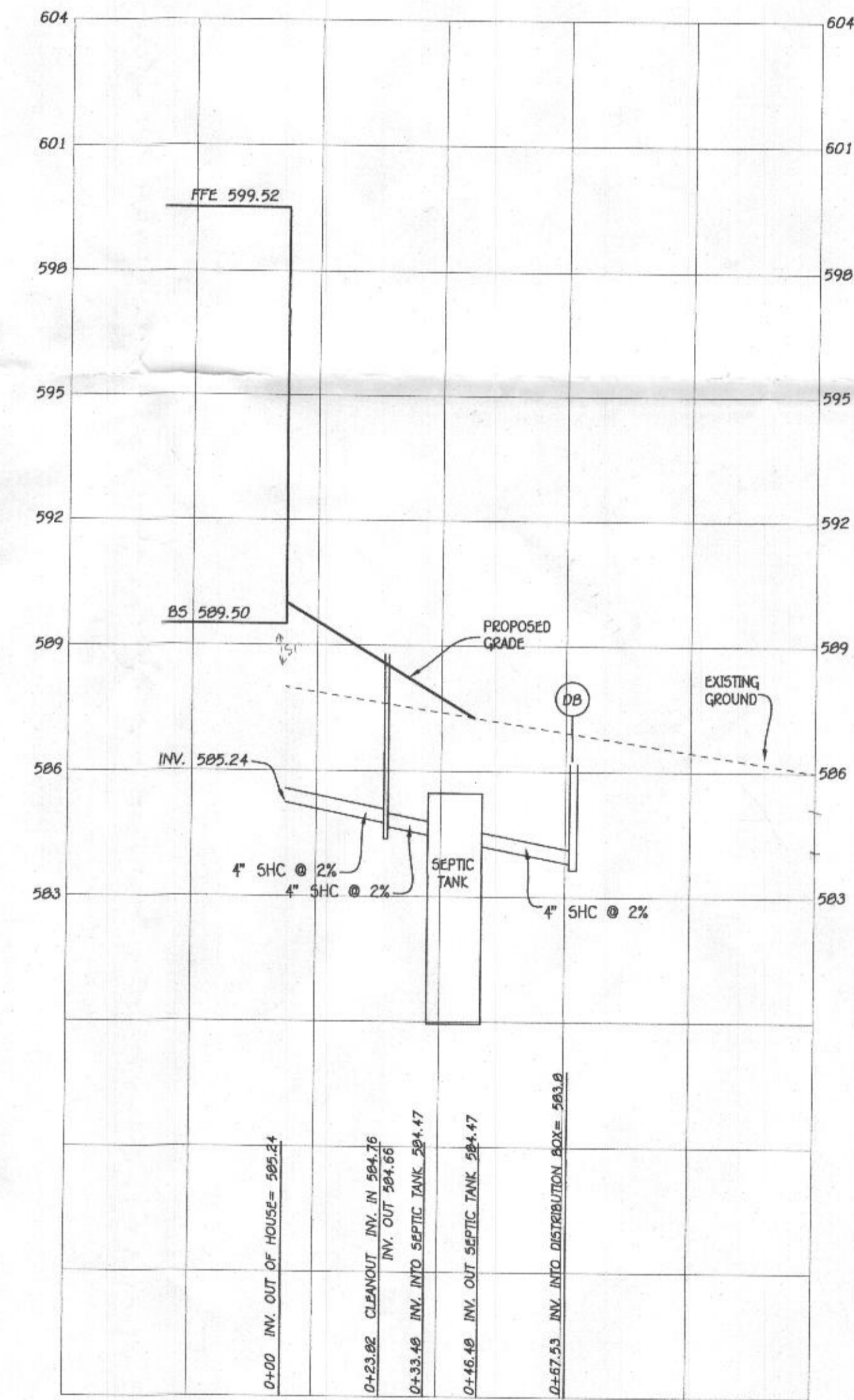
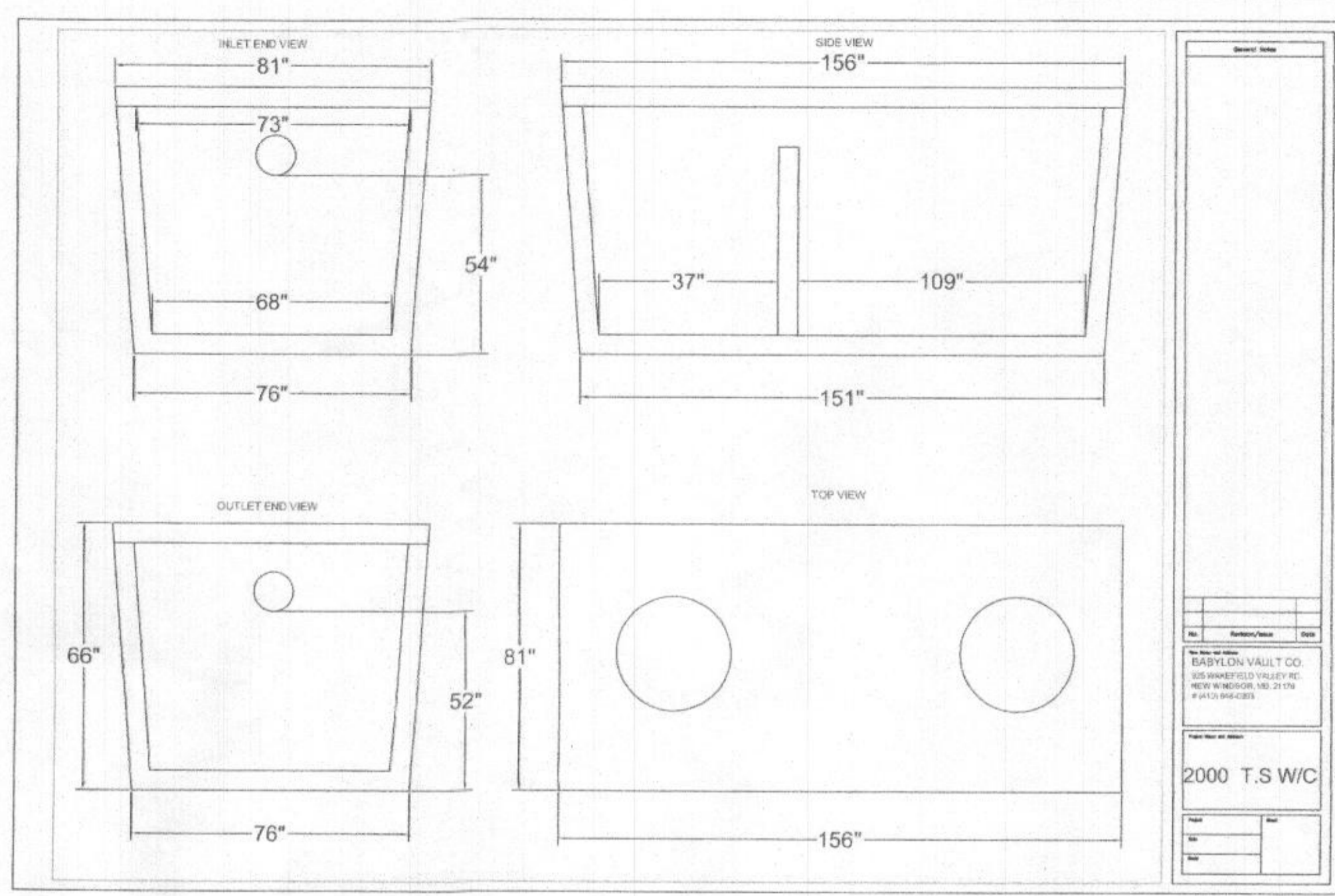


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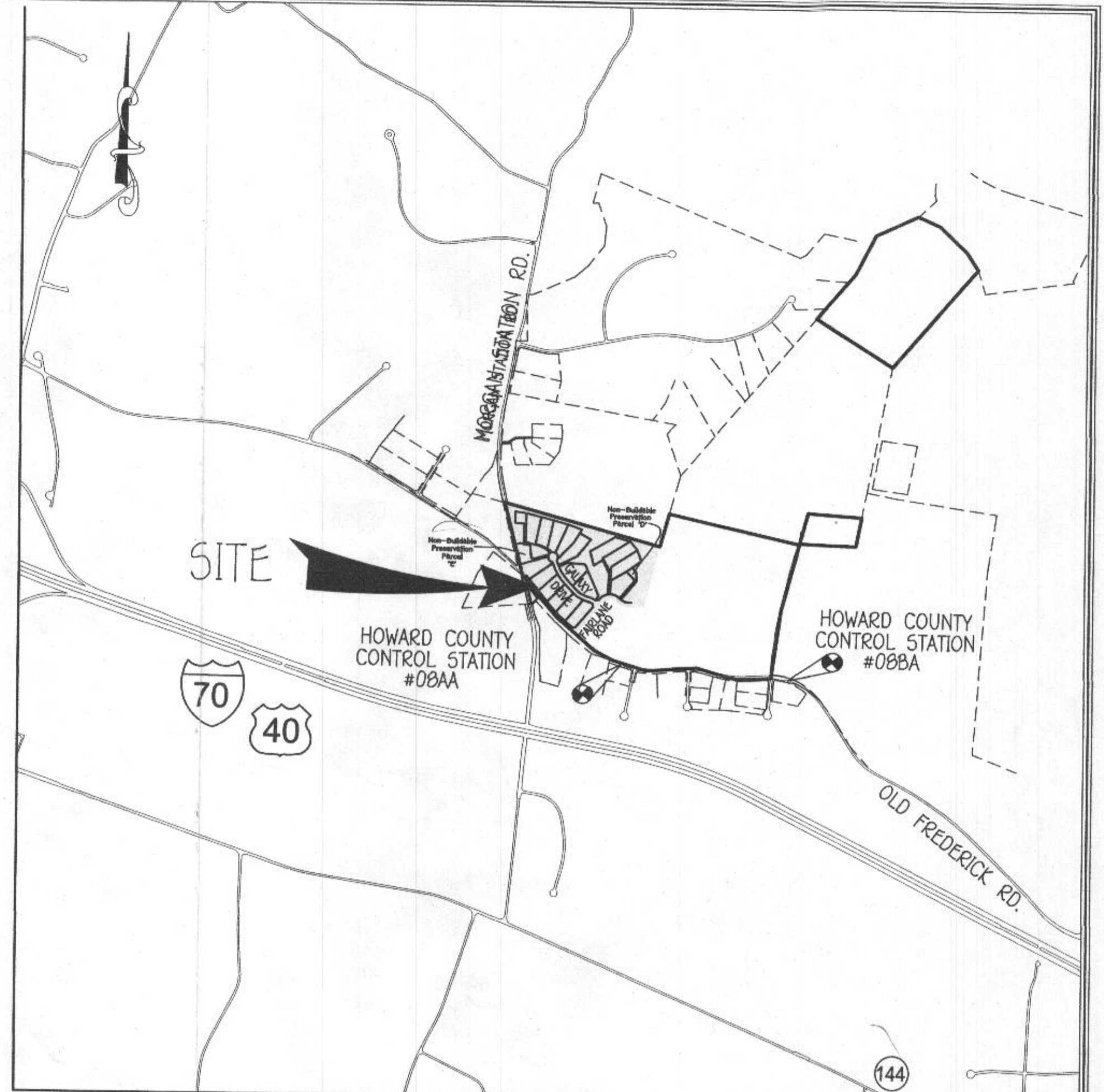
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PROFESSIONAL CERTIFICATION
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Michael J. Vitale
Signature of Professional Engineer
1/5/18
DATE



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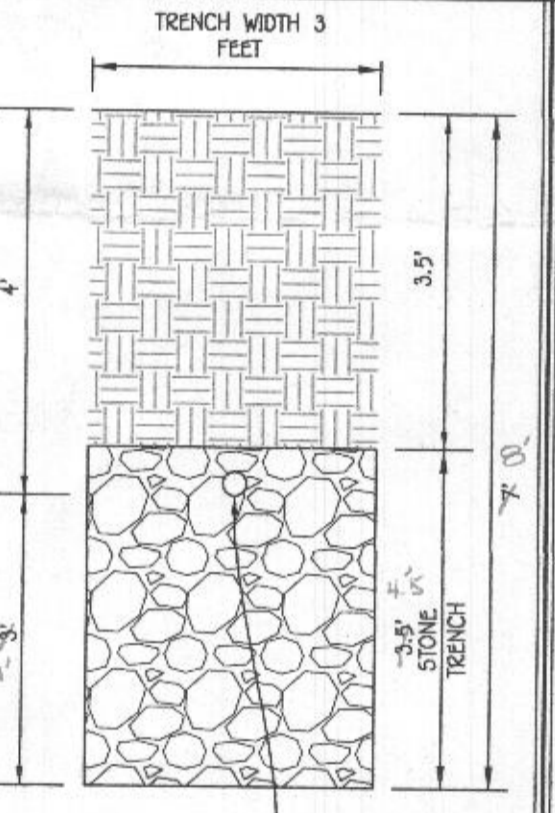


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Howard County Health Department
Mark Osum
Signature
1/5/18
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SCALE: 1" = 2'

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