

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: 6-3-19 **ONSITE SEWAGE DISPOSAL SYSTEM** P 565512-C
 APPROVAL DATE: _____ **PERMIT: CONSTRUCTION** A _____
 PROPERTY ADDRESS: 15211 Torino Way
 SUBDIVISION: Fairlane Farms LOT: 26 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 1.2

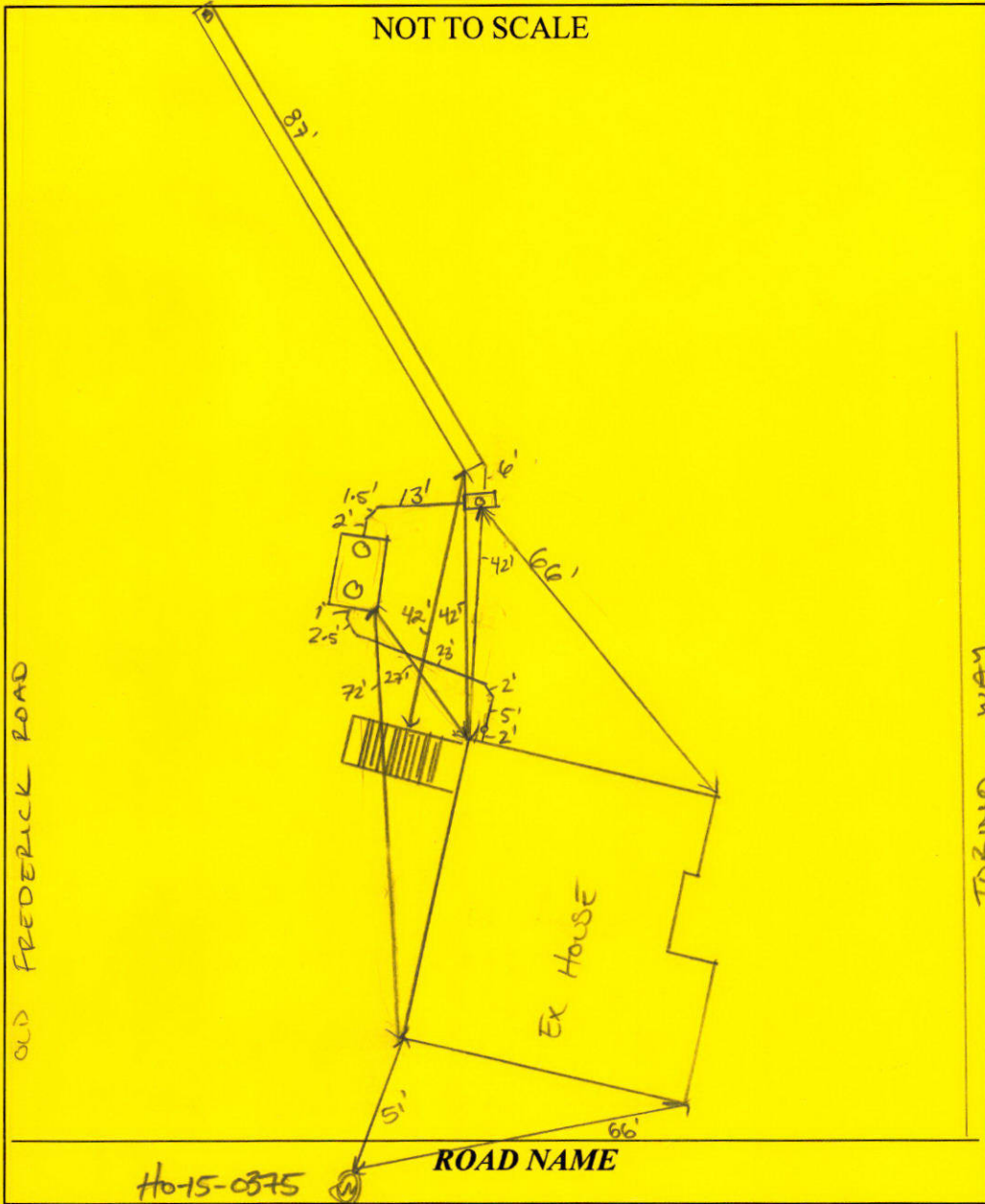
TRENCHES:	LINEAR FEET REQUIRED: <u>86.67</u>	INLET DEPTH: <u>3</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>7</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Install 2 78.13' trenches	

ISSUED BY: Hank Oswald ISSUE DATE: 6/3/19 EXPIRATION DATE: 6/3/20

- 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 _____
- 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.**

NOT TO SCALE



TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	3'	7'
NUMBER OF TRENCHES		1
TOTAL LENGTH		87 F
ABSORPTION AREA		261 SF
DISTRIBUTION BOX LEVEL		NO
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL YES
 MANUFACTURER BABYLON
 CAPACITY 2000 GAL
 SEAM LOC TOP
 TANK LID DEPTH 1in - 2in
 BAFFLES YES
 BAFFLE FILTER NO
 MANHOLE LOC FRONT/BACK
 6" PORT LOC _____
 WATERTIGHT TEST -
 SLOTTED YES
 DATE ON LID 05/17/2019

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:

6/27/2019 SDA AND TANK STAKED. TRENCH LAID OUT ON CONTOUR. 1x87'. (+)

INSTALLATION:

6/28/2019 TRENCH COMPLETE. ~~BOLDER TO ATTEMPT WELL BOX REDRAW TO MOVE AWAITING LOT GRADING TO SET TANK.~~ 7/15/2019 D BOX SET, NO LEVEL (ONE TRENCH). TANK SET AND TIED INTO HOUSE AND D BOX. OK TO BACKFILL (+)

FINAL INSPECTOR

DATE OF APPROVAL

07/15/2019

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 Plan
15211 Torino Way

Date: March 19, 2019 / April 8, 2019

The OSDS Plan has been reviewed with the following comments:

- 1.) SDA must be 25 feet from steep slope on neighboring lot.
- 2.) The application rate for first system is 0.8 (not 1.2)
- 3.) Initial trench detail shows pipe invert at 4 feet but trench data elevations has it at 3 feet.
(March 19, 2019 comment) Match trench detail with trench data.

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 Plan
15211 Torino Way

Date: March 19, 2019

The OSDS Plan has been reviewed with the following comments:

- 1.) The tank appears to be in a depression with the way the area is being graded. Is there reason for this?
- 2.) SDA must be 25 feet from all swales.
- 3.) Show both trenches for the 2nd system.
- 4.) Initial trench detail shows pipe invert at 4 feet but trench data elevations has it at 3 feet.

Oswald, Hank

From: Oswald, Hank
Sent: Monday, April 08, 2019 9:06 AM
To: 'Tony Fertitta'
Subject: OSDS Memo_15211 Torino Way
Attachments: OSDS Memo To FCC_15211 Torino Way_2019.pdf

Hi Tony:

Attached, please find plan review comments for OSDS Plan_15211 Torino Way.

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

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: Tuesday, March 19, 2019 7:11 AM
To: 'Tony Fertitta'
Cc: Williams, Jeffrey
Subject: OSDS Plan_15211 Torino Way_Lot 26
Attachments: OSDS Memo To FCC_15211 Torino Way_2019.pdf

Hi Tony:

Good morning. Attached, please find OSDS Plan review comments for 15211 Torino Way, Lot 26. Should you have any questions, please don't hesitate to ask.

Thanks,

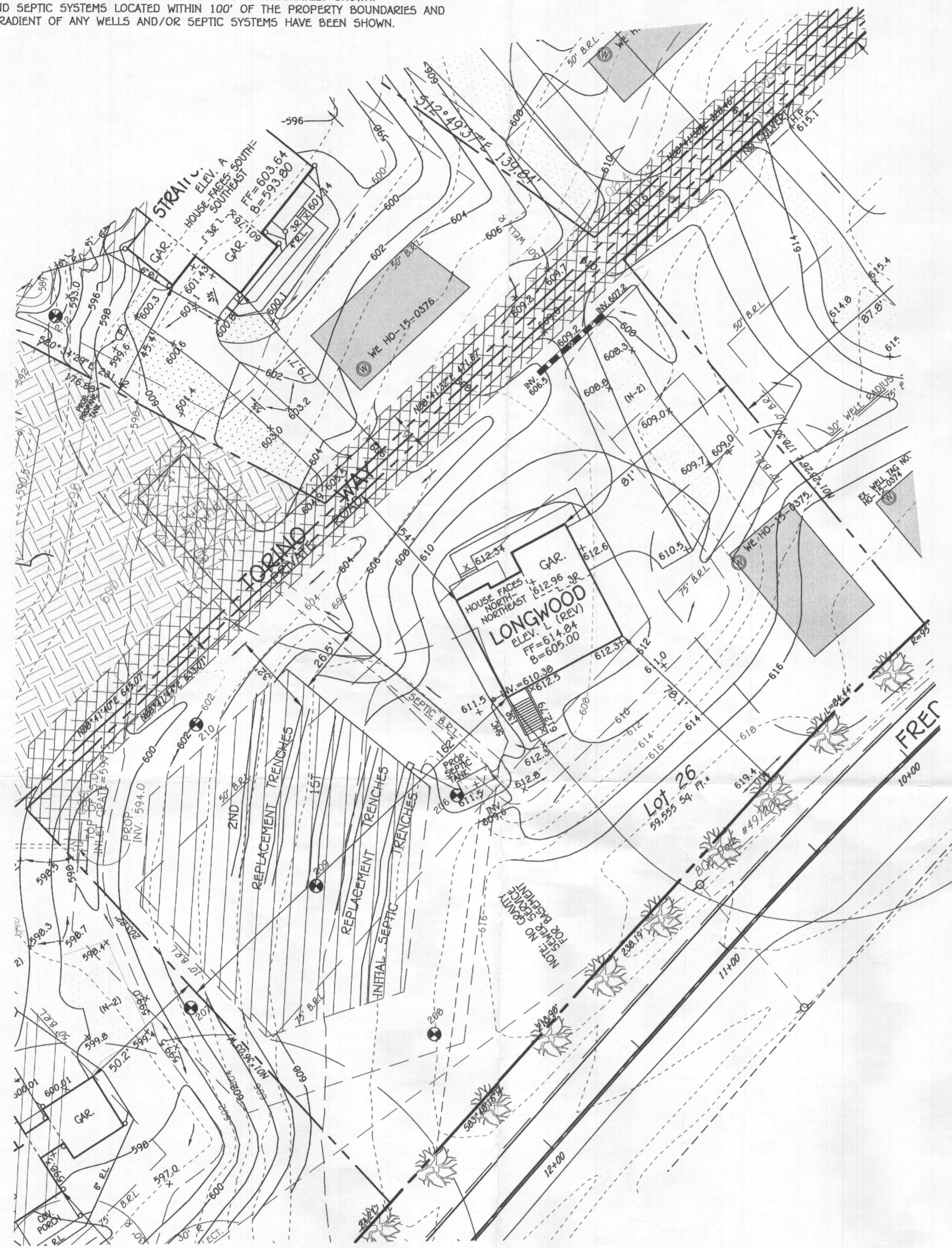
Hank

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

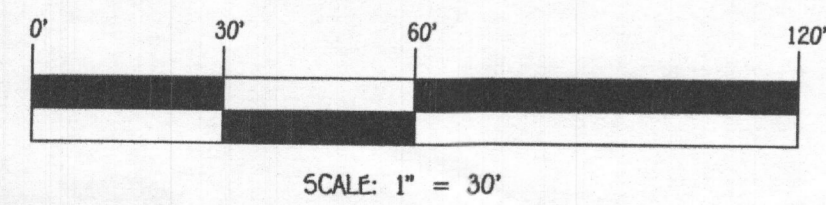
CONFIDENTIALITY NOTICE

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.

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-15-0375 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.

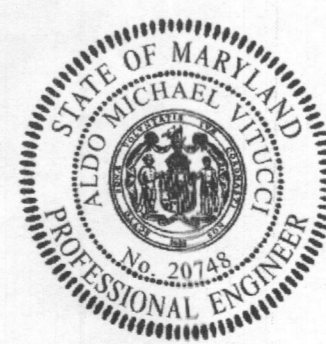


PLAN
SCALE: 1" = 30'



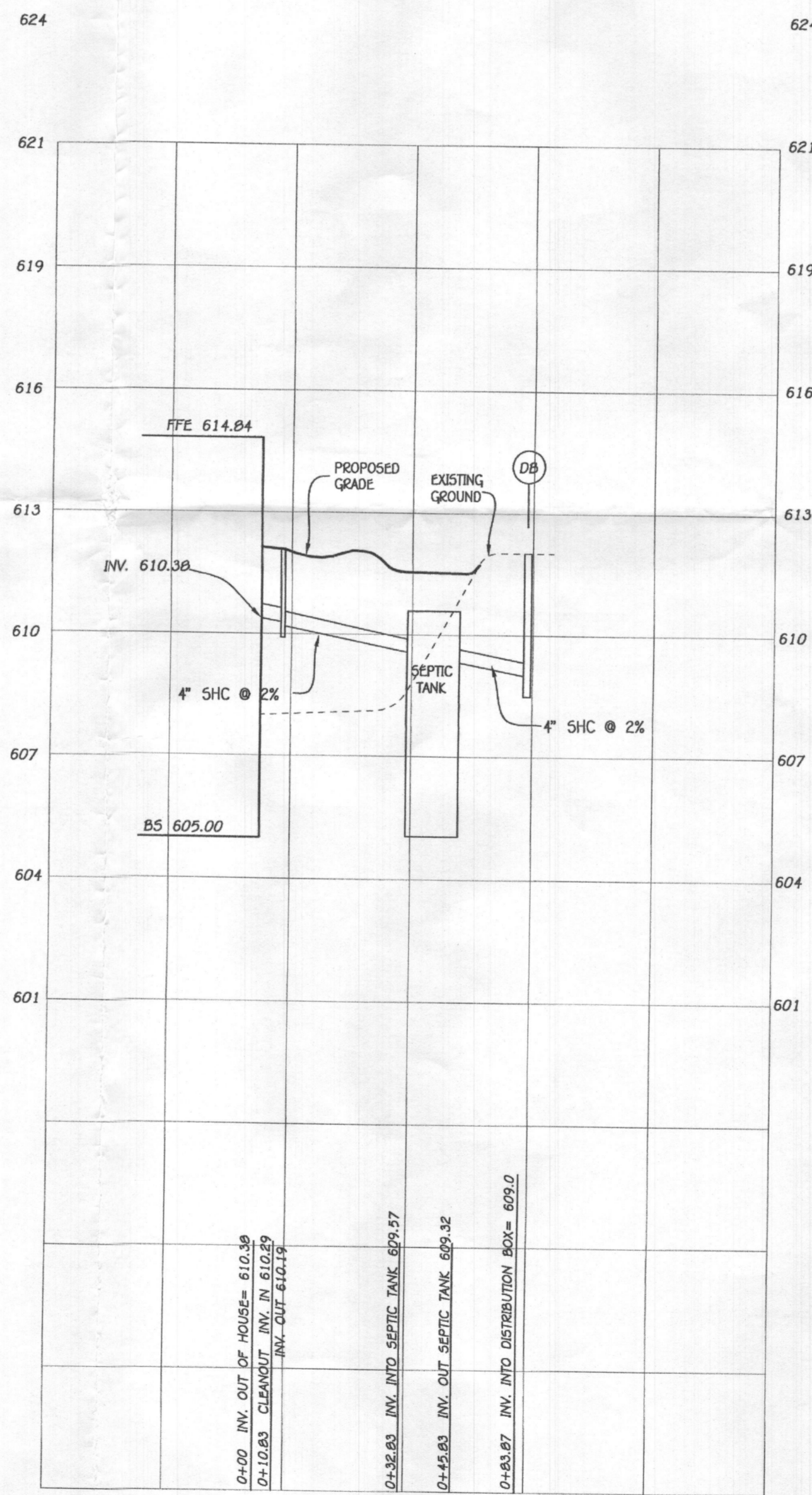
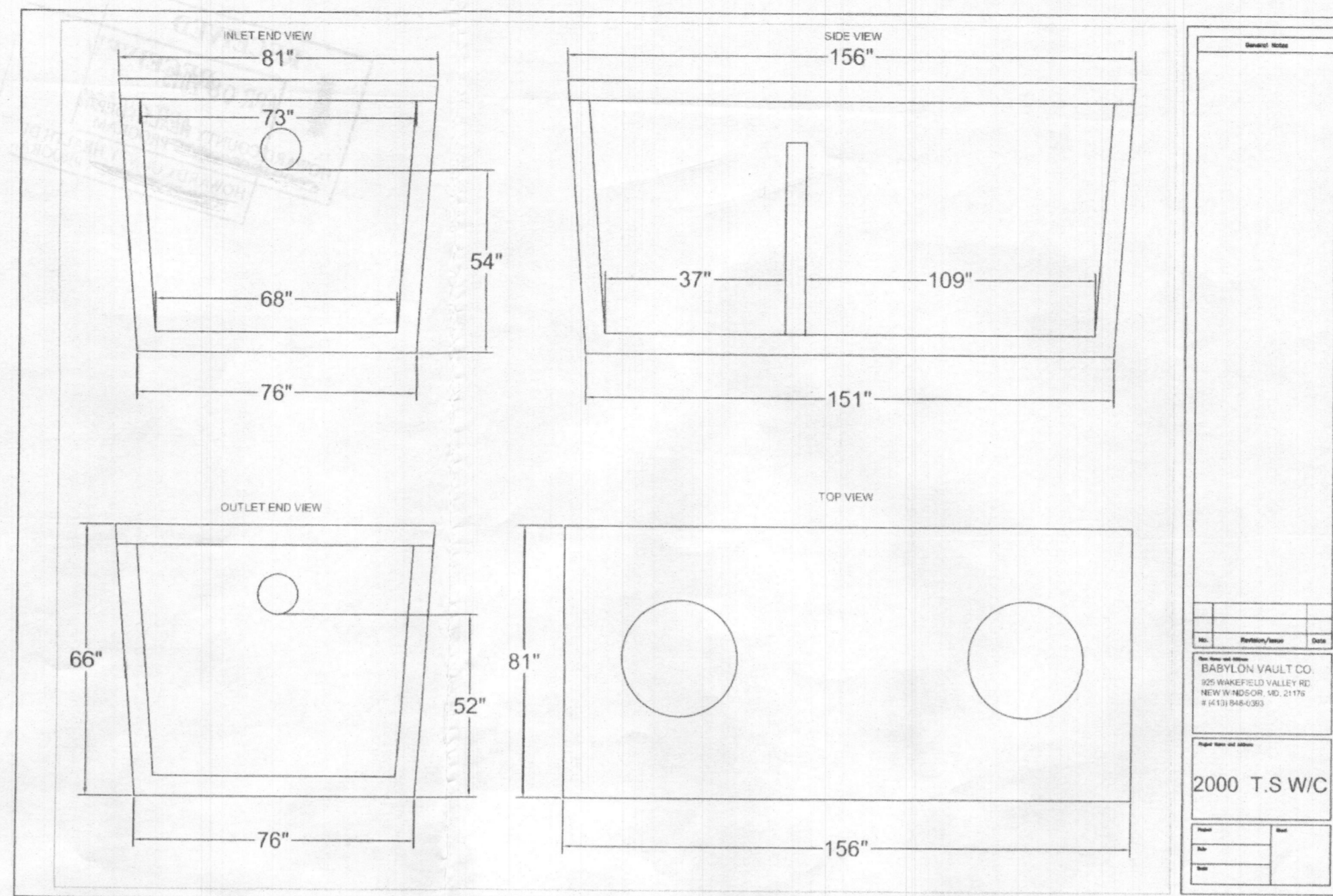
FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CONTINENTAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLETTT CITY, MARYLAND 21042
(410) 461-2955

OWNER/DEVELOPER
NY HOMES
9720 PATENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956

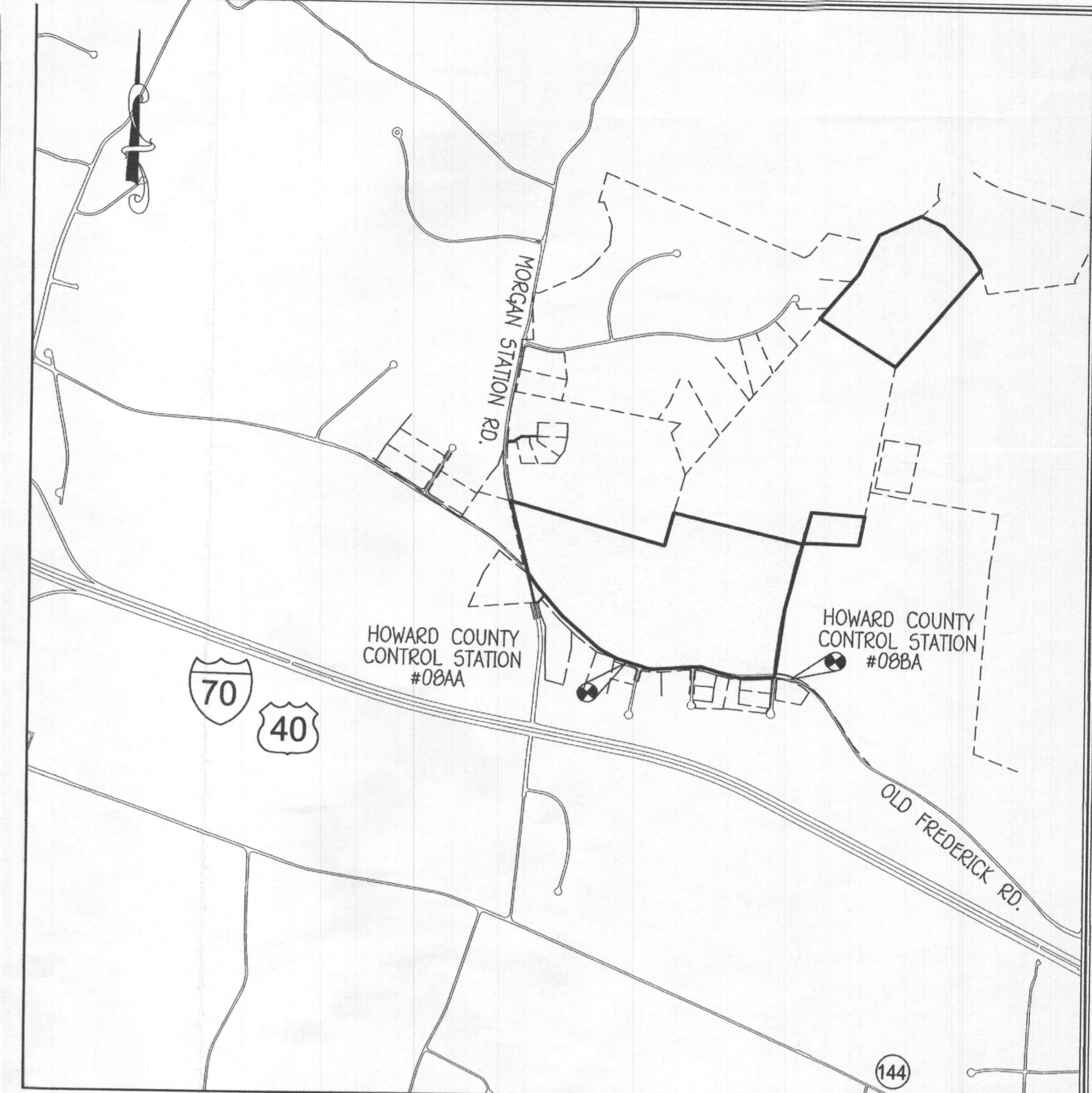


PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20740, EXPIRATION DATE: 02/22/2021.

Al M. Vitucci
Signature of Professional Engineer
4/9/19
DATE



SEPTIC PROFILE
SCALE: 1" = 30'

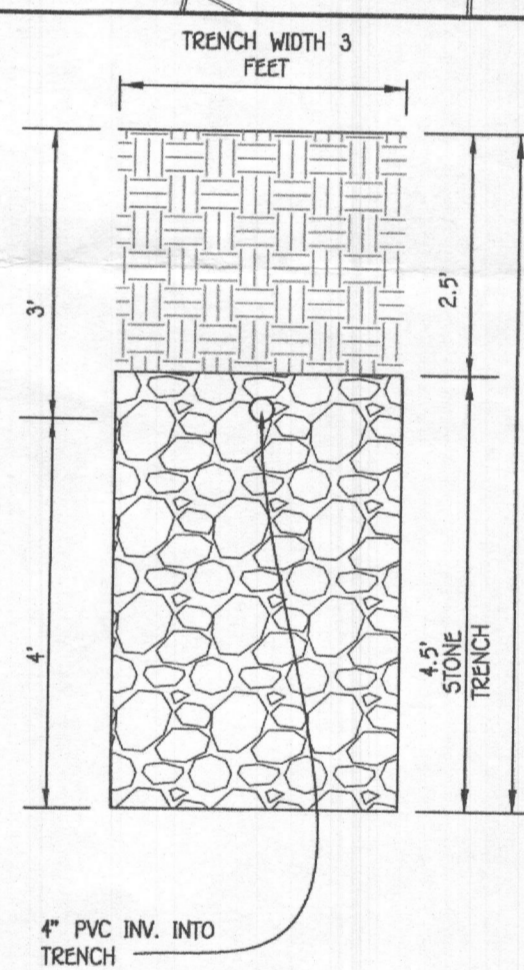


VICINITY MAP
SCALE: 1" = 1200'

FFE 614.04
BSE 605.0
INV. OUT OF HOUSE = 610.30
PROP. GROUND AT CLEANOUT #1 = 611.9
INV. INTO CLEANOUT = 610.29
EX. GROUND AT SEPTIC TANK = 610.0
PROP. GRADE ABOVE SEPTIC TANK = 611.57
TOP OF SEPTIC TANK = 610.57
INV. INTO SEPTIC TANK = 609.57
INV. OUT OF SEPTIC TANK = 609.32
EX. GROUND AT DISTRIBUTION BOX = 612
INV. INTO DISTRIBUTION BOX = 609.0
INV. OUT OF DISTRIBUTION BOX = 608.9

Approved Septic System Plan
Howard County Health Department
Mark Oswald
Signature
4/9/19
Date

TRENCH DATA:
TRENCH 1:
EX. GROUND ABOVE = 609.9
INV. IN = 606.9
BOTTOM TRENCH = 602.9



INITIAL TRENCH DETAIL
SCALE: 1" = 2"

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 3 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = .416
TRENCH LENGTH = 208.33 SF x .416 = 86.67 FEET

TRENCH SPACING = 2D+W = ((2x4) + 3) = 11' USE 11'

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 = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = .416
TRENCH LENGTH = 312.50 SF x 0.416 = 130.00 FEET (USE 2 TRENCHES AT 65.00 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 = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 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+(2x4)) = .416
TRENCH LENGTH = 312.50 SF x 0.416 = 130.00 FEET (USE 2 TRENCHES AT 65.00 L.F.)
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7' USE 10'

**SEPTIC SYSTEM
INSTALLATION SITE PLAN
LOT 26**

15211 TORINO WAY
FAIRLANE FARMS
PHASE TWO

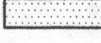



ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
26	15211 TORINO WAY

ZONED: RC-DEO
TAX MAP NO.: 8 GRID NO.: 2 PARCEL NO.: 8
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 8, 2019
SHEET 1 OF 1

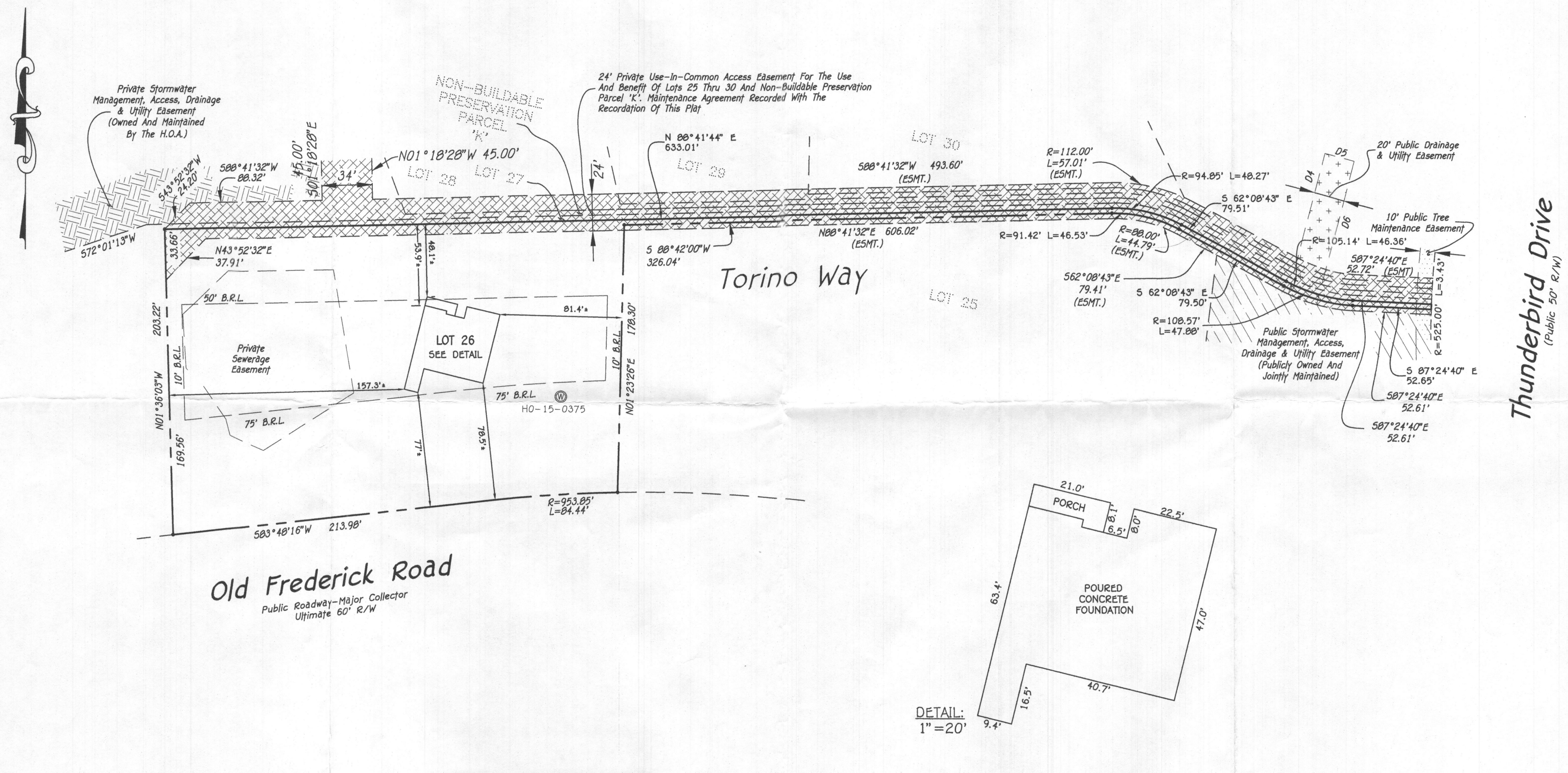
GENERAL NOTES:

- 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 1.0'.
- 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-15-0375 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 10/04/2020.
- 7) BUILDING PERMIT #B-19000729

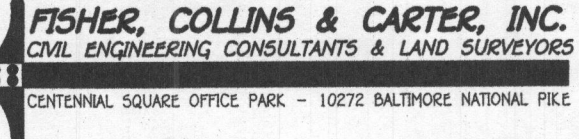

Legend

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

Public And Private Drainage & Utility Easement Line Table		
LINE	BEARING	LENGTH
D4	N14°40'57"E	96.43'
D5	S75°19'03"E	20.00'
D6	S14°40'57"W	98.31'



#15211 TORINO WAY
 B.R.L. = BUILDING RESTRICTION LINE
 TOP OF FOUNDATION ELEVATION = 613.7'

 FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE	 Mark L. Robel PROPERTY LINE SURVEYOR REG. #339	HOUSE LOCATION DRAWING
		FOUNDATION LOCATION: 5/23/19 FINAL LOCATION: BOUNDARY SURVEY: SCALE: 1"=50' DATE: 5/24/19 DRAWN BY: MD CHECKED BY: MLR PROJECT No.: 05106-3003

LOT 26
 FAIRLANE FARM
 PHASE TWO
 RESUBDIVISION PLAT-LOTS 19 THRU 44,
 NON-BUILDABLE PRESERVATION PARCELS 'I' THRU 'N',
 & REVISION PLAT-BUILDABLE PRESERVATION PARCEL 'A'
 PLAT NOS. 24367 THRU 24372
 FOURTH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

6/3/19 - wall check
 ok - u.o.