

**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: 10/26/2018 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 564050

APPROVAL DATE: 11/20/2018 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 12532 Westland Court

SUBDIVISION: Westland Farm Estates

LOT: 6

TAX ID:

05-599557

CONTRACTOR: HATFIELDS EQUIPMENT

EMAIL:

CONTRACTOR ADDRESS:

PHONE: 301 490 4289

PROPERTY OWNER: Williamsburg Group Westland Farm LLC

EMAIL: billmcbride@williamsburgllc.com

OWNER ADDRESS: 5485 Harpers Farm Road, Columbia, MD 21044

PHONE: 410-997-8800

SEPTIC TANK SIZE (GALLONS): 1500

TANK MANUFACTURER: Babylon Vault

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY: N/A

DISTRIBUTION SYSTEM:

☒ GRAVITY

☐ PRESSURE DOSED

BEDROOMS:

4

APPLICATION RATE:

1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>112</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:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:		

ISSUED BY: Robert Bricker

ISSUE DATE: 10/26/2018 EXPIRATION DATE: 10/26/2019

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

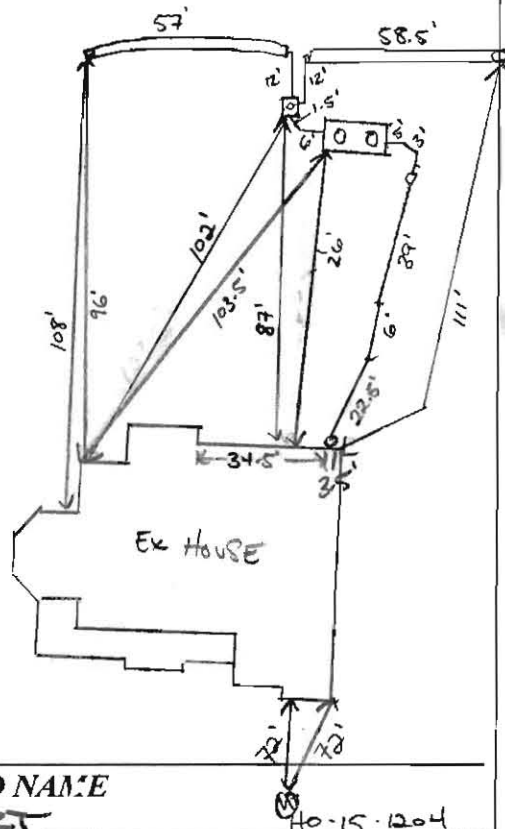
**NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.**

**PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.**

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



NOT TO SCALE



**TRENCH/DRAINFIELD DATA**

WIDTH	INLET	BOTTOM
3'	4'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		115.5'
ABSORPTION AREA		346.5 ft <sup>2</sup>
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

**SEPTIC TANK DATA**

SEPTIC TANK I LEVEL  
MANUFACTURER BABYLON  
CAPACITY 1500 GAL  
SEAM LOC TOP  
TANK LID DEPTH < 3'  
BAFFLES YES  
BAFFLE FILTER NO  
MANHOLE LOC FRONT/BACK  
6" PORT LOC INLET  
WATERTIGHT TEST N/A  
SLOTTED YES  
DATE ON LID 09/18/2018

**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 \_\_\_\_\_

ROAD NAME

WESTLAND COURT

**PRE-CONSTRUCTION:**

11/14/2018 TANK STAKED, D Box STAKED. SUPER SUE FENCE IN THE WAY AND GRADE CHANGED. WILL SET ANOTHER LAYOUT FOR TRENCHES AFTER TANK INSTALL. @ 11/19/2018 TRENCHES LAID OUT. @

INSTALLATION: 11/19/2018 TANK INSTALLED AND CONNECTED TO SHC (UNDER FOOTER). D Box TO BE INSTALLED. @ 11/20/2018 D Box LEVELED w/ SPEED LEVELS. TRENCHES COMPLETED. OK TO BACKFILL. @

FINAL INSPECTOR

DATE OF APPROVAL 11/20/2018



REVISED

Date: 6/5/18

Comments: B18001111  
Revised Plot Plan to Tension  
Slope Steepness above septic



FOREST CONSERVATION  
EASEMENT No. 64  
0.44 AC. (RETENTION)

18' WIDE  
SPILLWAY

PROPOSED 44' WIDE  
EMERGENCY SPILLWAY

35' ENVIRONMENTAL SETBACK

401.6  
3072 AC.

30' B.R.L.

Approved Septic System Plan  
Howard County Health Department

Revised grading  
near septic tank  
approved as illustrated

Mac

6/5/18

Date

Signature

B18001111

2032 Westland Ct

10,109 SQ. FT.

MICRO-80  
(M-8)  
417 SQ. FT.

MICRO-80  
(M-8)  
313 SQ. FT. (M)

DW11  
(M-5)

DW12  
(M-5)

W.O.

MELLINGHAM  
BLVD-3

RT-424.5  
BOMI-414.35

PORCH

DW9A  
(M-5)

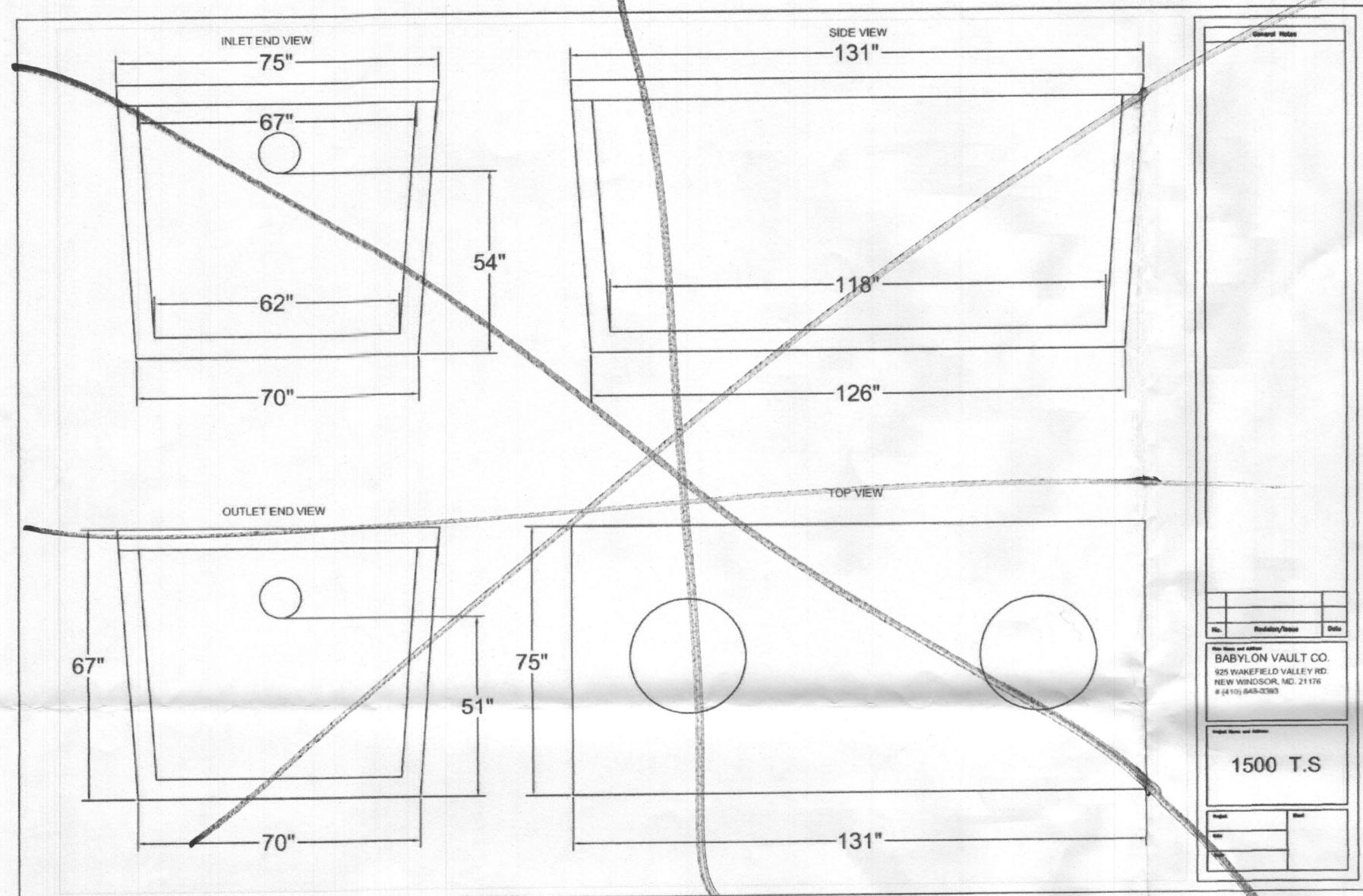
DW9  
(M-5)

TPF

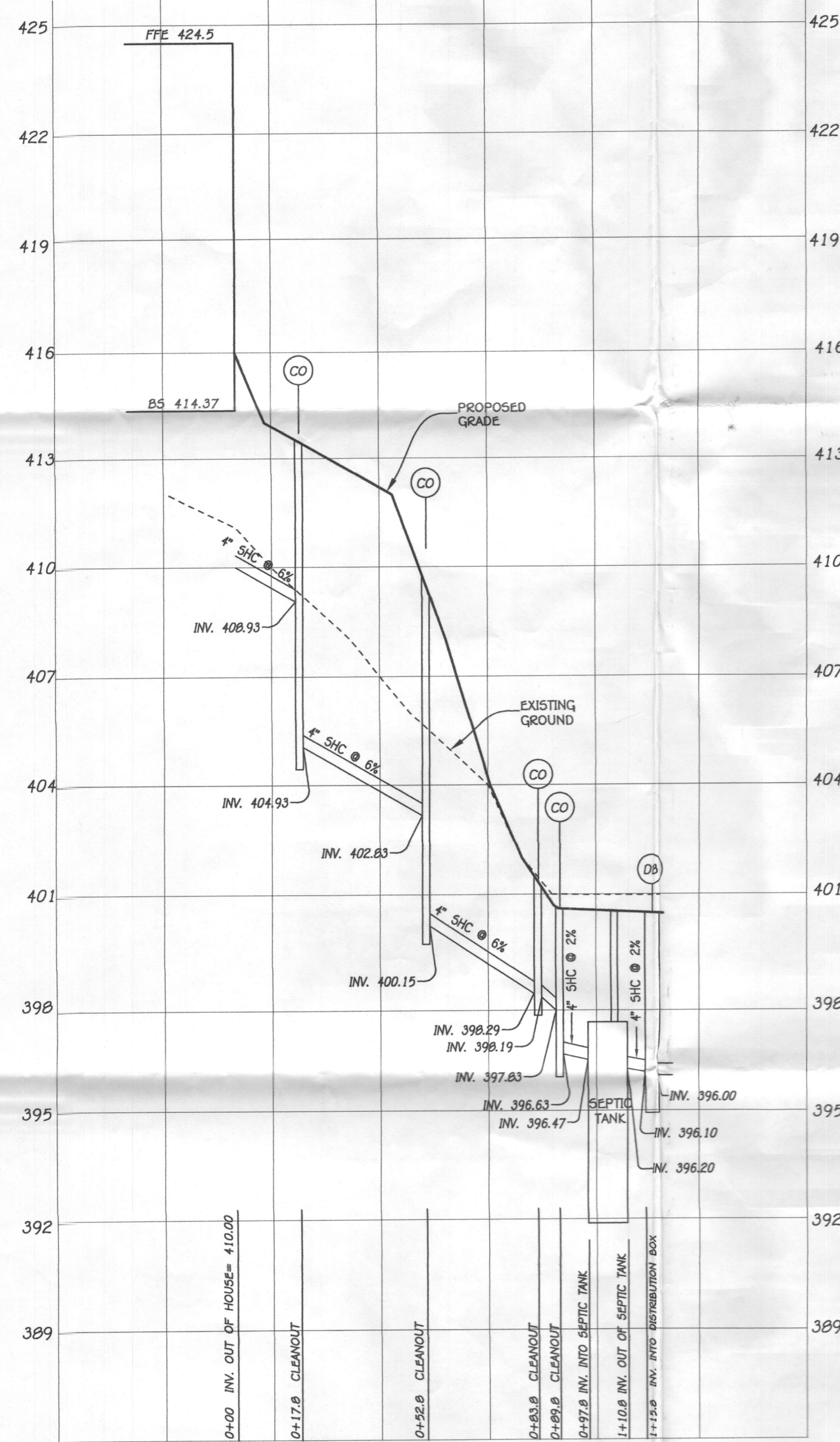


SWM facilities  
as illustrated  
on 5/16 revision  
ref





2-chamber tank required. r3



**SEPTIC PROFILE**  
HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=3'

**OWNER**

WILLIAMSBURG GROUP, LLC  
C/O BOB CORBETT  
5405 HARPER'S FARM ROAD, SUITE 200  
COLUMBIA, MARYLAND 21044  
410-997-0800

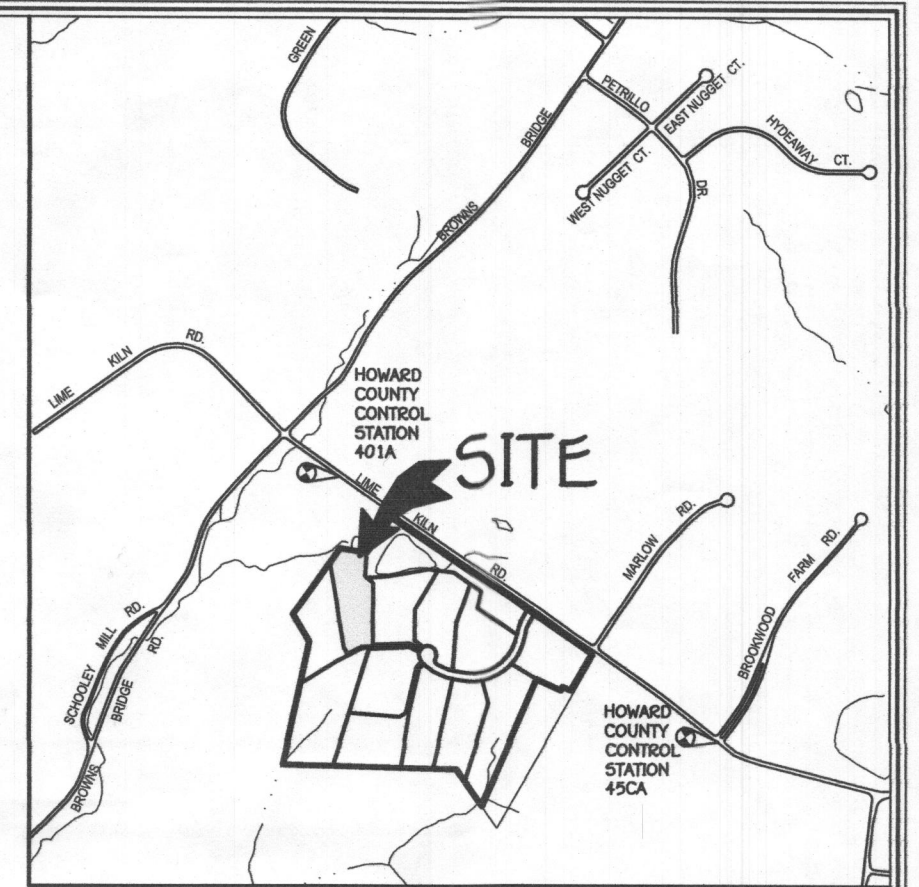
TRENCH DESIGN									
TRENCH	GROUND ELEV.	TOP OF STONE ELEV.	PIPE INVERT ELEV.	DEPTH TO STONE FROM GROUND (FT)	DEPTH OF TRENCH (FT)	BOTTOM OF TRENCH ELEV.	EFFECTIVE DEPTH STARTS AT	EFFECTIVE DEPTH (D)	WIDTH OF TRENCHES (W)
A	399.0	395.5	395.0	3.5'	2.5'	393.0	4.0'	2.0'	3.0'
B	399.0	395.5	395.0	3.5'	2.5'	393.0	4.0'	2.0'	3.0'

**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES EXISTING WELL
- DENOTES PROPOSED TREELINE
- DENOTES 1500 SQ.FT. ALTERNATE WELL SITE
- PASSED PERC HOLES
- FAILED PERC HOLES

**NOTE:**

THE EXISTING WELLS SHOWN ON THIS PLAN, HO-15-0204 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

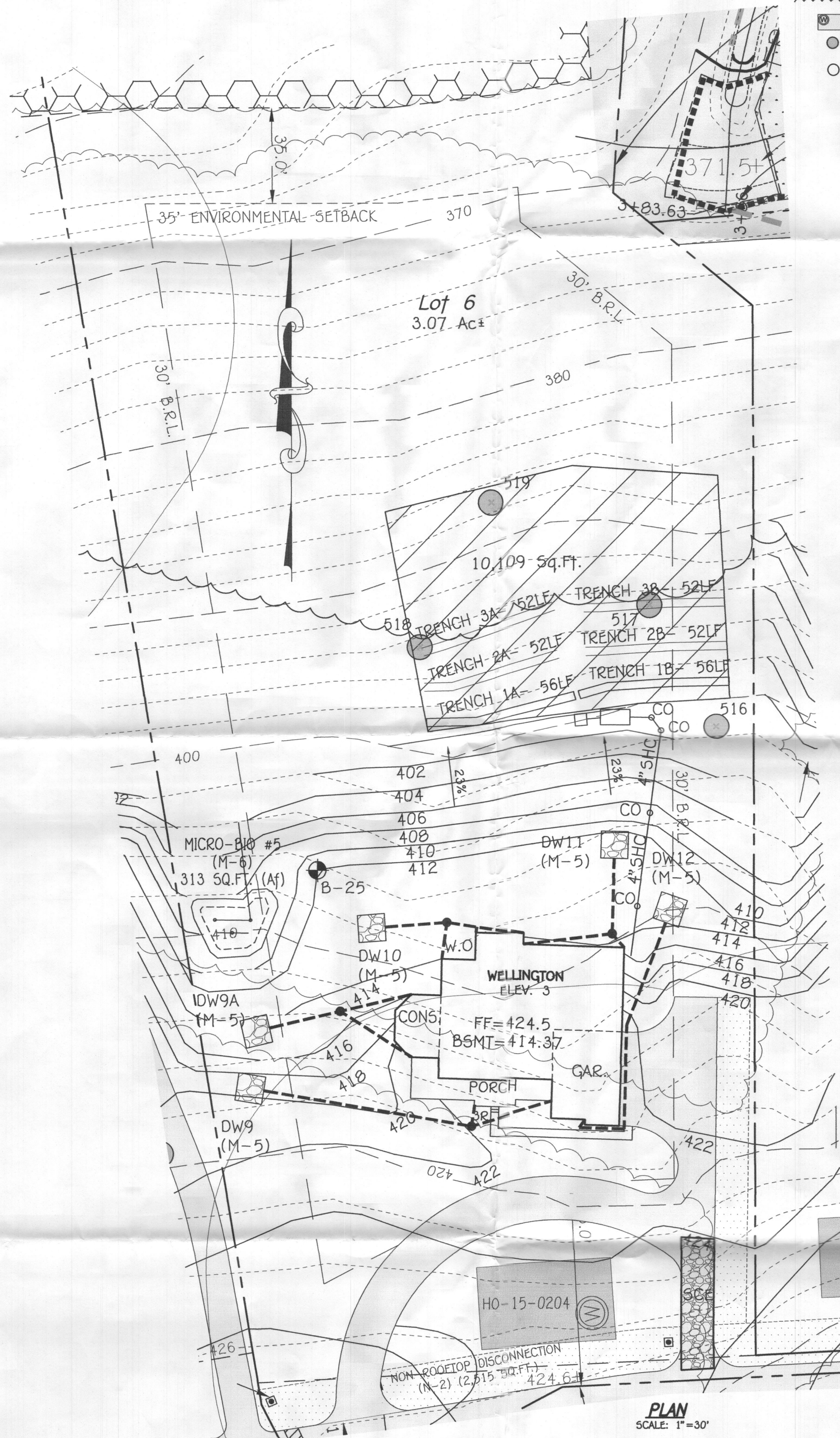


**VICINITY MAP**  
SCALE: 1" = 1200'

**GENERAL NOTES:**

- THIS AREA DESIGNATES A PRIVATE SEWERAGE AREA OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE AREAS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE AREA. RECORDATION OF A MODIFIED SEWERAGE AREA SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEPTIC AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- TOPOGRAPHIC CONTOURS BASED ON HARTFORD AERIAL SURVEYS, INC. DATED JANUARY 2006 AND SUPPLEMENTED WITH FIELD RUN TOPOGRAPHY BY FISHER, COLLINS & CARTER, INC. ON OR ABOUT APRIL, 2006 AND JANUARY, 2015.
- BOUNDARY OF LOT BASED ON PLAT #23986 AND FIELD SURVEY BY FISHER, COLLINS & CARTER, INC.
- ANY CHANGES TO A PRIVATE SEWERAGE AREA SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN.
- PLAT REFERENCE: 23895 THRU 23987.
- SUBJECT PROPERTY ZONED: RR-DEO
- TOTAL AREA OF PROPERTY: 3.07 AC.
- WETLANDS, STREAMS, THEIR BUFFERS, FLOODPLAIN, AND STEEP SLOPES DO NOT EXIST ON THIS LOT.
- SOILS SHOWN HEREON ARE BASED ON NRCS WEB SOIL SURVEY AND HOWARD COUNTY SOILS MAP 3.

Approved  
Howard County Health Department  
1500-gal Septic Tank  
2 gravity drainfield approved  
R. Buckle  
Signature  
6/5/2018  
Date  
B1800111



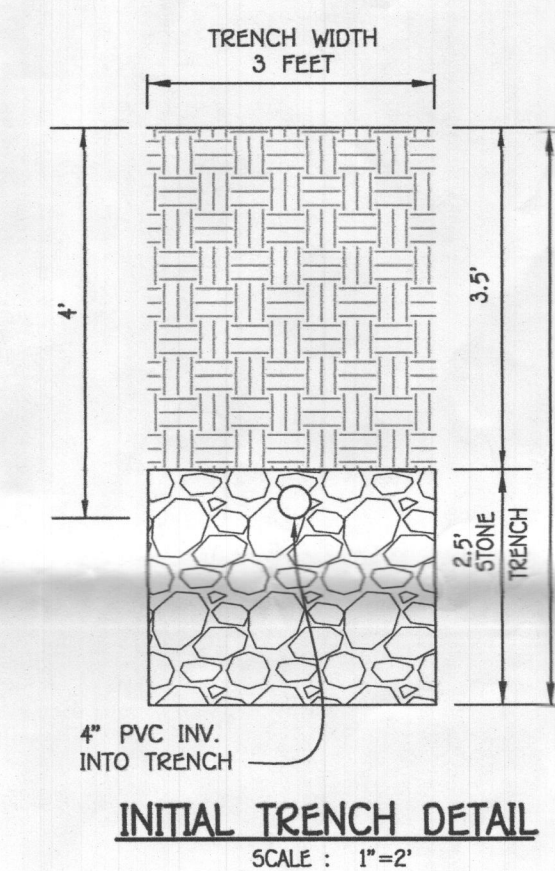
FFE 424.5  
BSE 414.37  
INV. OUT OF HOUSE = 410.00  
PROP. GROUND AT CLEANOUT = 413.3  
INV. INTO CLEANOUT = 408.93  
INV. OUT OF CLEANOUT = 404.93  
PROP. GROUND AT CLEANOUT = 409.40  
INV. INTO CLEANOUT = 402.83  
INV. OUT OF CLEANOUT = 400.15  
PROP. GROUND AT CLEANOUT = 401.6  
INTO CLEANOUT = 398.29  
INV. OUT OF CLEANOUT = 398.19  
PROP. GROUND AT CLEANOUT = 400.80  
INV. INTO CLEANOUT = 397.83  
INV. OUT OF CLEANOUT = 396.63  
PROP. GROUND AT SEPTIC TANK = 400.5  
COVER OVER TANK = 3 FEET  
TOP OF SEPTIC TANK = 397.47  
INV. INTO SEPTIC TANK = 396.47  
INV. OUT OF SEPTIC TANK = 396.20  
EX. GROUND AT DISTRIBUTION BOX = 400.0  
INV. INTO DISTRIBUTION BOX = 396.10  
INV. OUT OF DISTRIBUTION BOX = 396.0

**NOTES:**

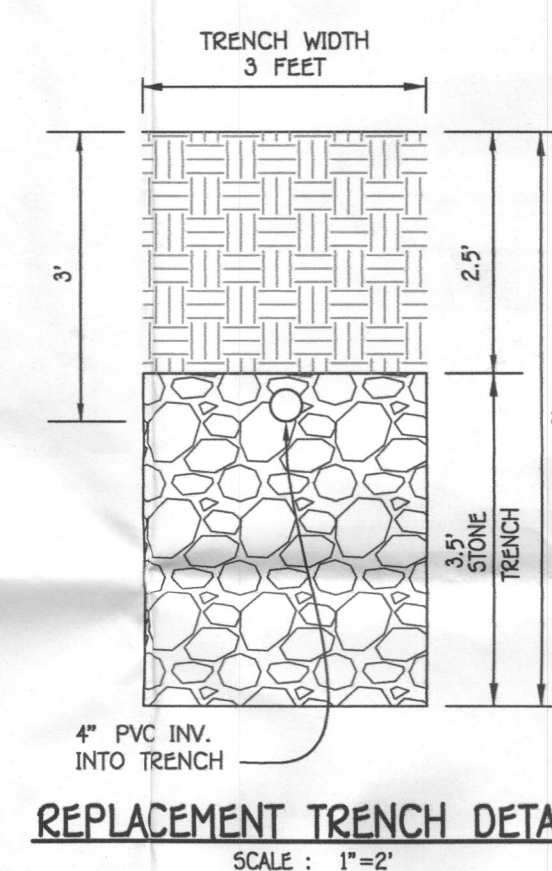
- ANY CHANGES TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- ALL WELLS AND SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARIES AND 200 FEET DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.

**SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM**

4 BEDROOMS  
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 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 = 600 GPD / 1.2 = 500 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  
(W+2)/(W+1+2D)=(3+2)/(3+1+(2x2))=0.625  
TRENCH LENGTH = 500 SF x 0.625 / 3 = 104.2 LF (USE 112 LF)  
TRENCH SPACING = 2D+W = ((2x2) + 3) = 7 LF (USE 10 LF)



**INITIAL TRENCH DETAIL**  
SCALE: 1"=2'



**REPLACEMENT TRENCH DETAIL**  
SCALE: 1"=2'

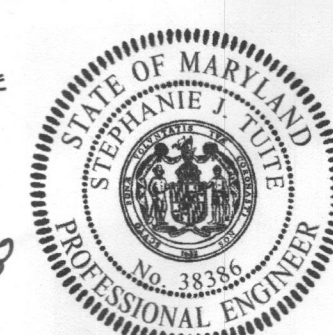
**SEWAGE DISPOSAL SYSTEM DATA - 1ST & 2ND REPLACEMENT SYSTEMS**

4 BEDROOMS  
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD  
APPLICATION RATE = 1.2  
EFFECTIVE SIDEWALL BEGINS AT 3 FEET  
TRENCH DEPTH = 6 FEET  
TRENCH WIDTH (W) = 3 FEET  
EFFECTIVE DEPTH (D) = 3 FEET  
SF OF DRAINFIELD = 600 GPD / 1.2 = 500 SF  
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =  
(W+2)/(W+1+2D)=(3+2)/(3+1+(2x3))=0.500  
TRENCH LENGTH = 500 SF x 0.500 / 3 = 83.3 SF (USE 104 LF)  
TRENCH SPACING = 2D+W = ((2x3) + 3) = 9 LF (USE 10 LF)

**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. 38386, EXPIRATION DATE: 01/12/2020.

Signature of Professional Engineer  
Date: 5/30/18



**SEPTIC PLAN**  
WESTLAND FARM ESTATES  
LOT 6  
12532 WESTLAND COURT

TAX MAP #45 PARCEL: 28  
ZONED: RR-DEO  
THIRD ELECTION DISTRICT: HOWARD COUNTY, MARYLAND  
SCALE: AS SHOWN DATE: MAY, 2018

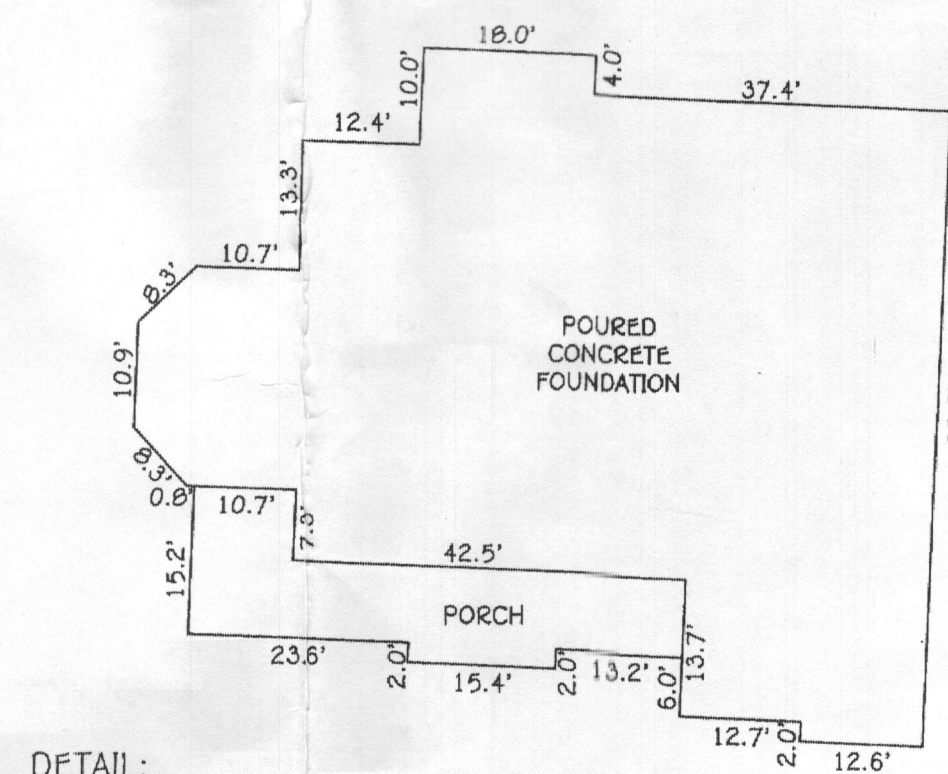


# **GENERAL NOTES:**

- 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 OF 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<sub>1</sub> ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP OF HOWARD COUNTY, MARYLAND, COMMUNITY PANEL No. 24027C01400, EFFECTIVE 11/08/2013.
- 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-15-0204) 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-18001111

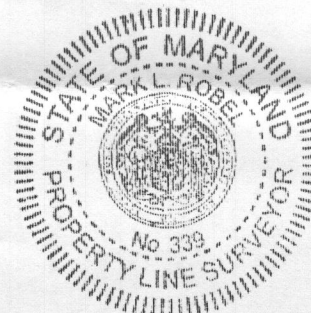
## **Public Forest Conservation Easement Line Chart**

Line	Bearing	Length
FC14	S 11°39'57" E	29.14'
FC15	S 43°20'07" E	23.97'
FC16	S 61°18'24" E	34.82'
FC17	S 74°15'38" E	87.47'
FC18	S 04°19'09" E	45.43'
FC19	S 80°52'22" W	23.53'
FC20	S 83°06'15" W	51.19'
FC21	N 89°59'41" W	97.88'
FC22	S 85°32'52" W	82.13'



DETAIL:  
1"=20'

**FISHER, COLLINS & CARTER, INC.**  
CIVIL ENGINEERING, CONSULTANTS & LAND SURVEYORS  
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE  
ELLSWORTH CITY, MARYLAND 21042  
(410) 461-2999



*Mark J. Bell*  
PROFESSIONAL LAND SURVEYOR  
REG. #339  
DATE 7/27/18

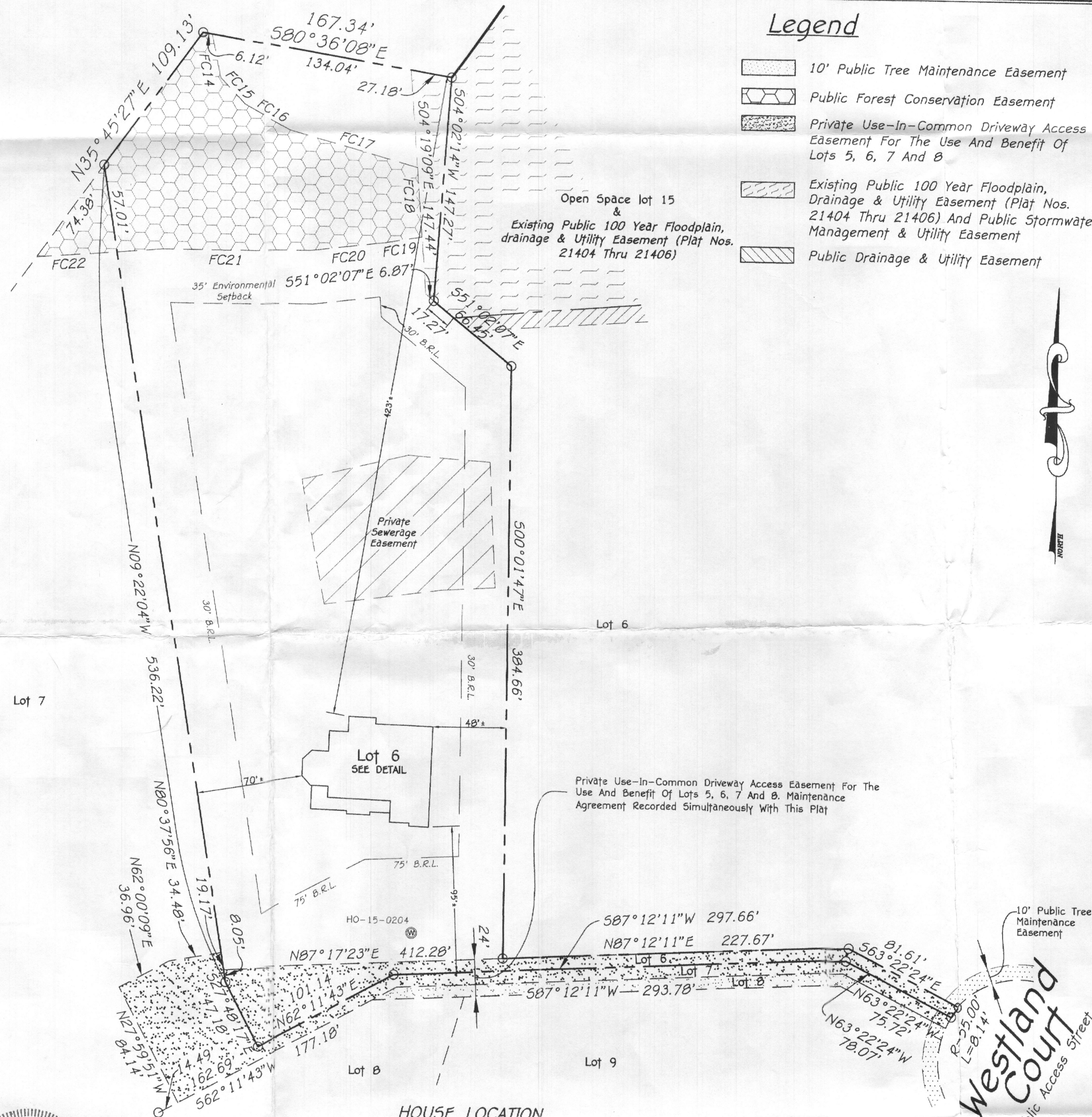
## **HOUSE LOCATION DRAWING**

FOUNDATION LOCATION: 7/20/18  
FINAL LOCATION:  
BOUNDARY SURVEY:  
SCALE: 1"=50'  
DATE: 7/27/18  
DRAWN BY: MD  
CHECKED BY: MUR  
PROJECT No. 22562-3003

#12532 WESTLAND COURT  
B.R.L. = BUILDING RESTRICTION LINE  
TOP OF FOUNDATION ELEVATION = 423.1'

## **Legend**

- 10' Public Tree Maintenance Easement
- Public Forest Conservation Easement
- Private Use-In-Common Driveway Access Easement For The Use And Benefit Of Lots 5, 6, 7 And 8
- Existing Public 100 Year Floodplain, Drainage & Utility Easement (Plat Nos. 21404 Thru 21406) And Public Stormwater Management & Utility Easement
- Public Drainage & Utility Easement



**Westland Court**  
Public Access Street

LOT 6  
WESTLAND FARM ESTATES  
PHASE II  
LOTS 3 THRU 14 AND  
OPEN SPACE LOT 15  
PLAT NOS. 23985 THRU 23987  
FIFTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

Wall  
Check  
OK  
R/E 10/26/2018