



Howard County
Health Department

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

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

RECEIPT DATE: 4-29-20 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 567383

APPROVAL DATE: 7/15/20 **PERMIT: CONSTRUCTION**

A

PROPERTY ADDRESS: 12526 Westland Ct.

SUBDIVISION: Westland Farm Estates

LOT: 5

TAX ID:

04373383

CONTRACTOR:

EMAIL:

CONTRACTOR ADDRESS:

PHONE:

PROPERTY OWNER: Williamsburg Group, LLC C/O Bob Corbett

EMAIL:

OWNER ADDRESS: 5485 Harpers Farm Rd.

PHONE:

410-730-3940

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER:

Babylon Vault

PUMP MODEL: N/A

PUMP SIZE

N/A

PUMP TANK CAPACITY:

N/A

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS:

6

APPLICATION RATE:

1.2

| | | | | |
|-----------|---|------------|---------------------------------|------------|
| TRENCHES: | LINEAR FEET REQUIRED: | <u>178</u> | INLET DEPTH: | <u>2</u> |
| | TRENCH WIDTH: | <u>3</u> | MAXIMUM BOTTOM DEPTH: | <u>7</u> |
| | MINIMUM SPACE BETWEEN TRENCHES: | <u>10</u> | EFFECTIVE AREA BEGINNING DEPTH: | <u>5.5</u> |
| | | | | |
| LOCATION: | PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION. | | | |
| NOTES: | | | | |

ISSUED BY: Robert Freemon

ISSUE DATE: 4-29-20

EXPIRATION DATE: 4-29-21

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 DOWNGRAIENT 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.

279189279189

NOT TO SCALE

* see attached diagram

TRENCH/DRAINFIELD DATA

WIDTH INLET BOTTOM

3' 2' 7'

NUMBER OF TRENCHES 5

TOTAL LENGTH 180'

ABSORPTION AREA 540 sq ft

DISTRIBUTION BOX LEVEL yes

DISTRIBUTION BOX BAFFLE yes

DISTRIBUTION BOX PORT yes

PRE-CONSTRUCTION:**SEPTIC TANK DATA**

SEPTIC TANK 1 LEVEL yes

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 2'

BAFFLES front + back

BAFFLE FILTER

MANHOLE LOC front + back

6" PORT LOC

WATERTIGHT TEST

SLOTTED yes

DATE ON LID 5-22-20

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

07/13/2020 6 x 30' TRENCHES LAID OUT ON CONTOUR. TANK, D BOX, AND SDA STAKED. OK TO START. (ST)

INSTALLATION: 7/14/2020 SHC, Sewer line, tank and d-box set. (ST)

7/15/2020 Trenches installed and d-box leveled. OK to backfill. (ST)

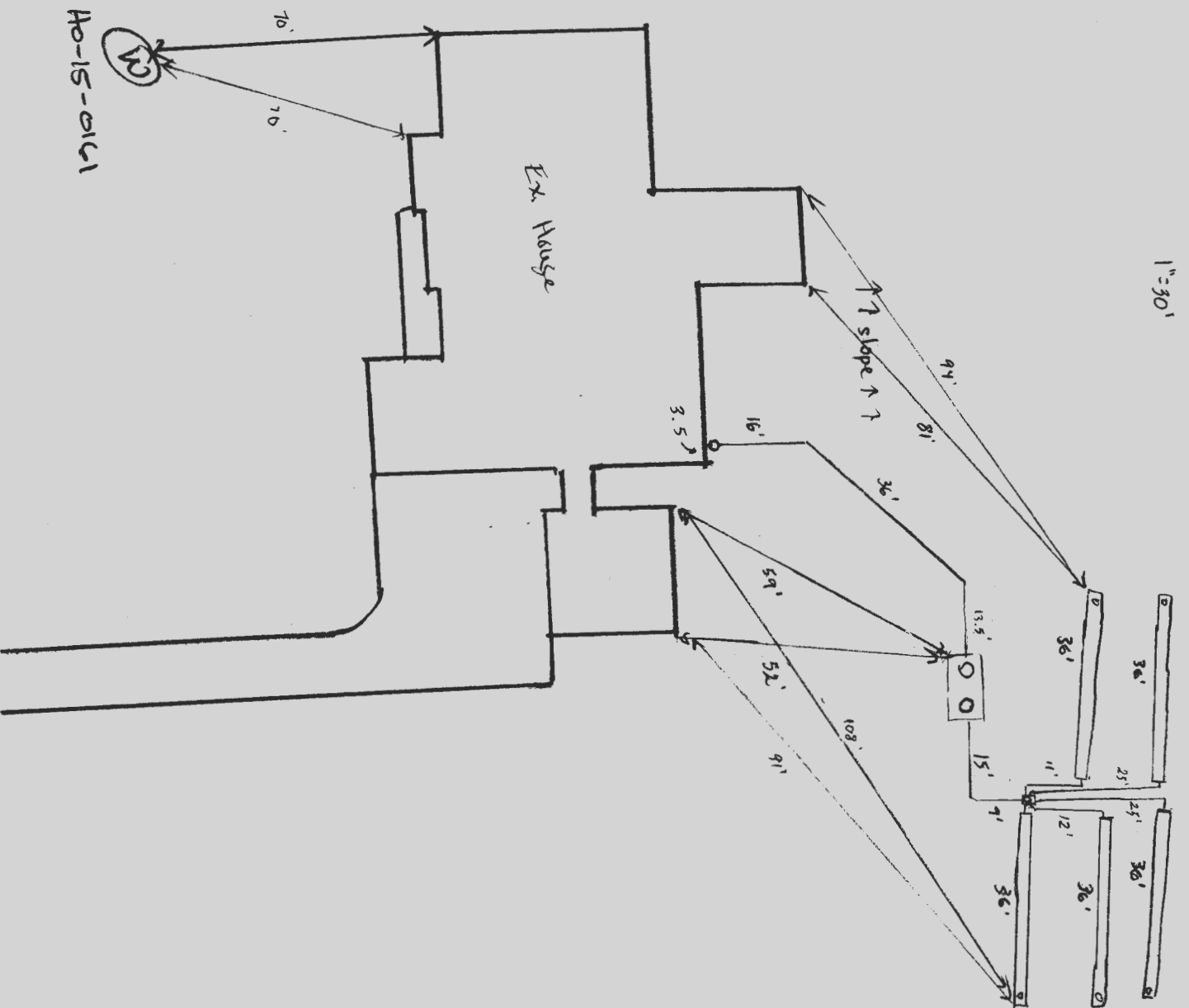
FINAL INSPECTOR

Susan Thomas

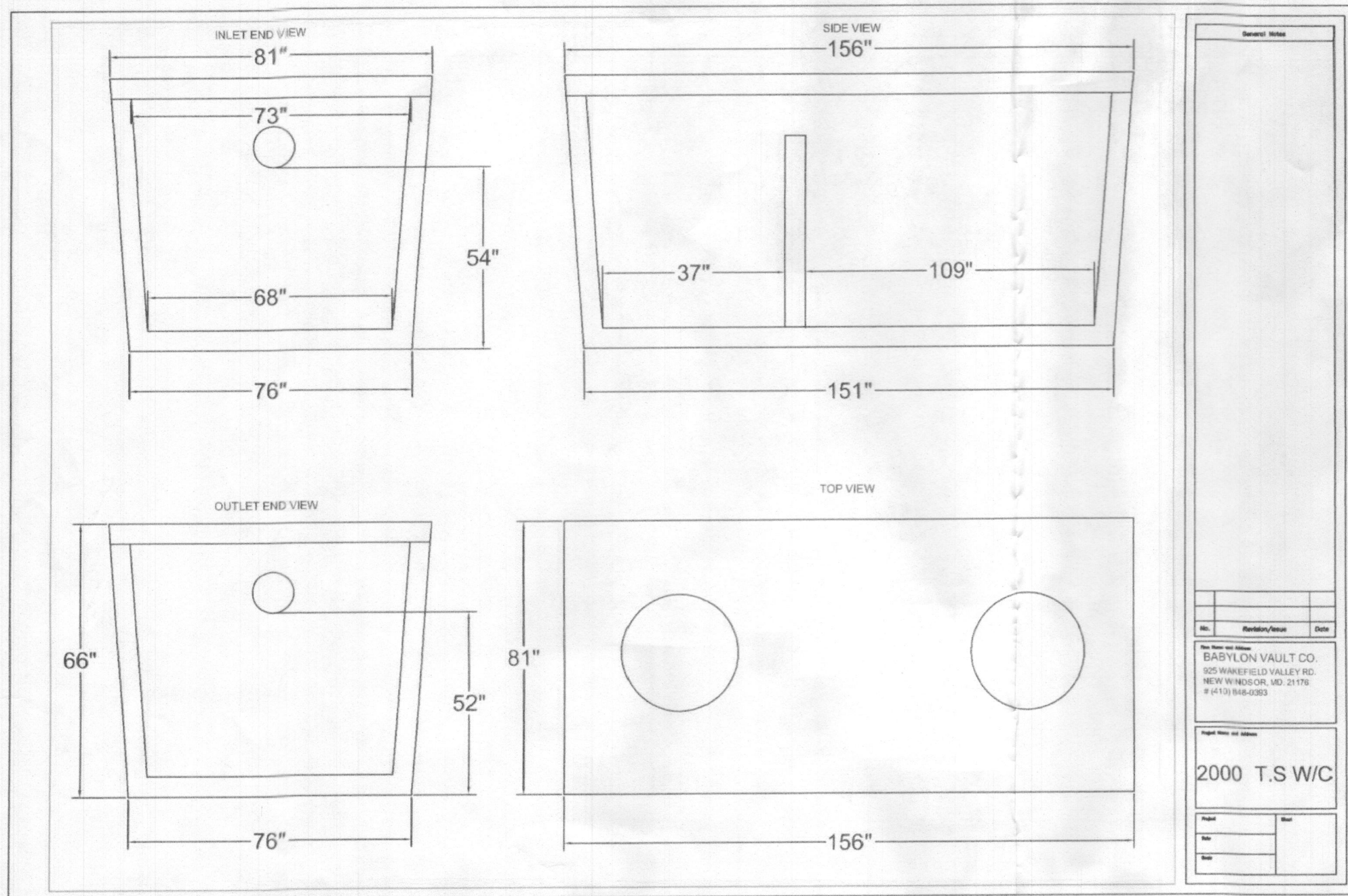
DATE OF APPROVAL

7/15/2020

NOT TO SCALE
1" = 30'

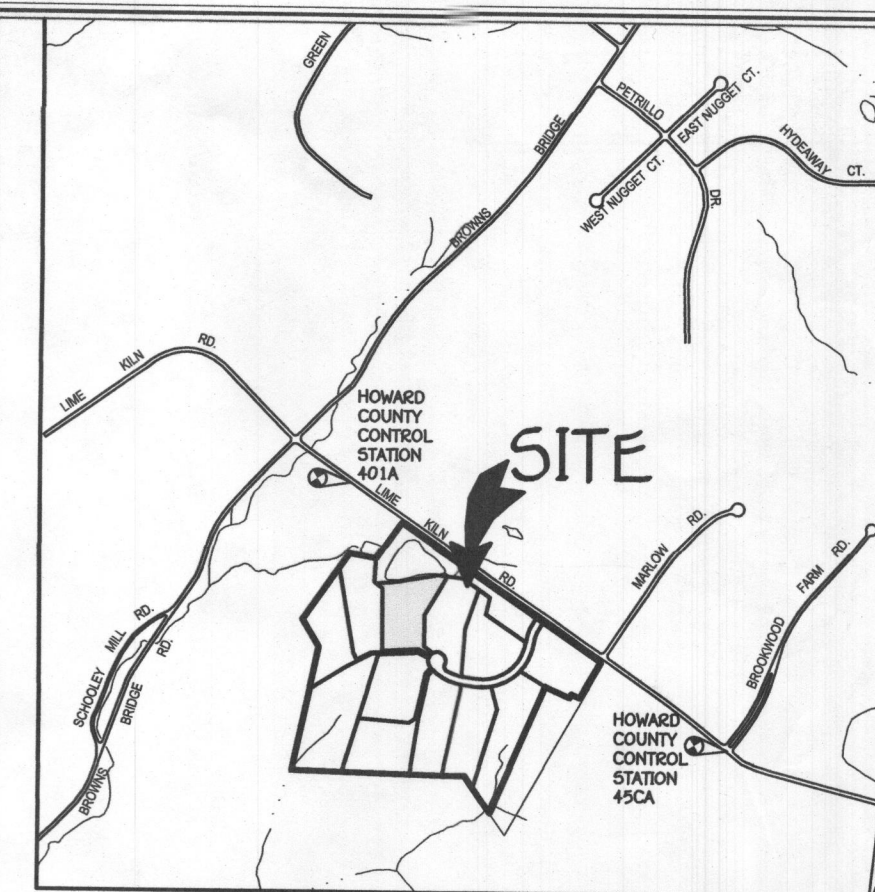


HO-15-0141



NOTE:
THE EXISTING WELLS SHOWN ON THIS PLAN, HO-15-0161 HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.

- 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
 - 538 PASSED PERC HOLES
 - 537A FAILED PERC HOLES
 - DENOTES 25% STEEP SLOPES



VICINITY MAP
SCALE : 1" = 1200'

GENERAL NOTES:

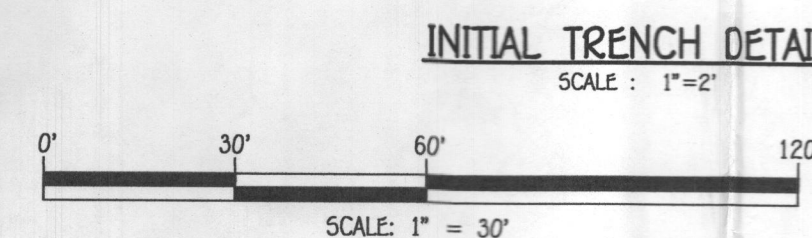
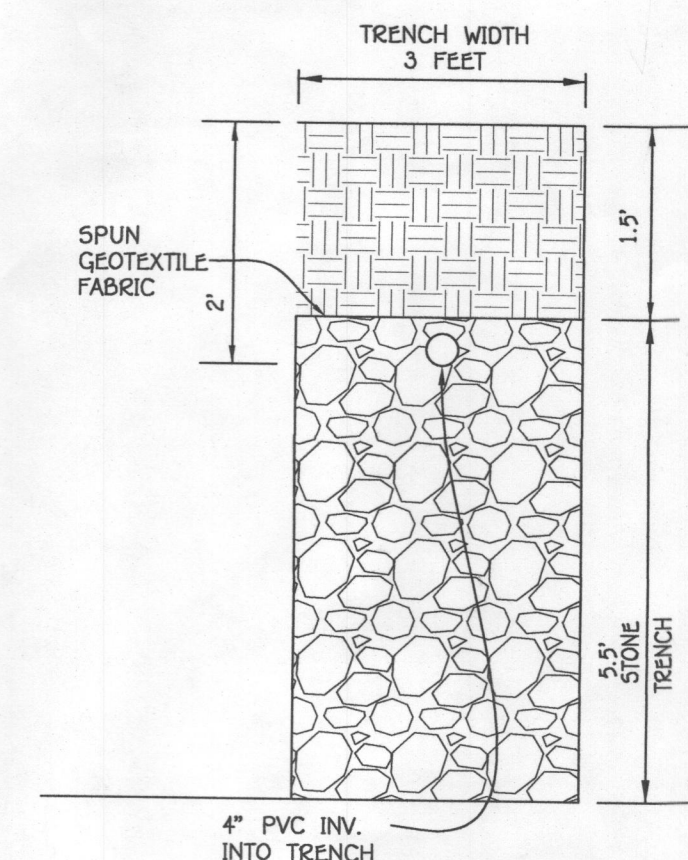
- THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
- ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
- THE LOT SHOWN HEREON COMPLETES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- 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.
- TOPOGRAPHIC CONTOURS BASED ON HARGROVE AERIAL SURVEYS, INC. DATED JANUARY 2006 AND SUPPLEMENTED WITH FIELD RUN TOPOGRAPHY BY FISHER, COLLINS & CARTER, INC. ON OR ABOUT APRIL, 2006 AND JANUARY, 2019.
- BOUNDARY OF LOT BASED ON PLAT #23986 AND FIELD SURVEY BY FISHER, COLLINS & CARTER, INC.
- PLAT REFERENCE: 23995 THRU 23987.
- SUBJECT PROPERTY ZONED: R2-DEO
- TOTAL AREA OF PROPERTY: 3.0 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. 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.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK. (IF NOT A LOAD BEARING SEPTIC TANK)

SEWAGE DISPOSAL SYSTEM DATA - INITIAL SYSTEM
6 BEDROOMS
LOADING RATE = 6 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5.5 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.5 FEET
SF OF DRAINFIELD = 900 GPD / 1.2 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 1.5)) = 0.71$
TRENCH LENGTH = 750 SF X 0.833 / 3 = 177.50 SF
TRENCH SPACING = 2D+W = ((2 \times 1.5) + 3) = 6' USE 10'
6 TRENCHES 29.50

SEWAGE DISPOSAL SYSTEM DATA - 1st REPLACEMENT SYSTEM
6 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 625 SF X 0.625 / 3 = 156.25 FEET
TRENCH SPACING = 2D+W = ((2 \times 2) + 3) = 7' USE 10'
4 TRENCHES 39.06

SEWAGE DISPOSAL SYSTEM DATA - REPLACEMENT SYSTEM 2nd
6 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 900 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 1125 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 375 SF X 0.625 / 3 = 234.38 FEET
TRENCH SPACING = 2D+W = ((2 \times 2) + 3) = 7' USE 10'
5 TRENCHES 46.88

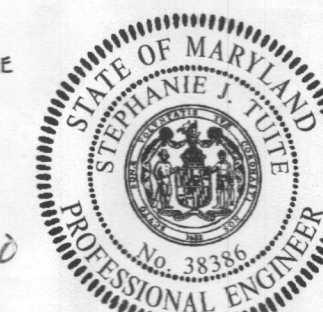
FPE 431.2
BSE 421.32
INV. OUT OF HOUSE = 418.32
PROP. GROUND AT CLEANOUT = 421.0
INTO CLEANOUT = 418.14
INV. OUT OF CLEANOUT = 416.00
PROP. GROUND AT CLEANOUT = 418.00
INTO CLEANOUT = 415.82
INV. OUT OF CLEANOUT = 410.00
PROP. GROUND AT CLEANOUT = 411.70
INTO CLEANOUT = 409.78
INV. OUT OF CLEANOUT = 407.37
PROP. GROUND AT CLEANOUT = 409.80
INTO CLEANOUT = 407.05
INV. OUT OF CLEANOUT = 406.21
EX. GROUND AT SEPTIC TANK = 409.0
COVER OVER TANK = 2.17 FEET
TOP OF SEPTIC TANK = 406.83
INV. INTO SEPTIC TANK = 405.83
INV. OUT OF SEPTIC TANK = 405.66
EX. GROUND AT DISTRIBUTION BOX = 406.8
INTO DISTRIBUTION BOX = 405.30
INV. OUT OF DISTRIBUTION BOX = 405.20



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. 36306, EXPIRATION DATE: 01/12/2020.

Signature Of Professional Engineer DATE



Approved Septic System Plan
Howard County Health Department
Signature DATE

SEPTIC PLAN
WESTLAND FARM ESTATES
LOT 5
12526 WESTLAND COURT

TAX MAP #45 PARCEL: 28
ZONED: R2-DEO
THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: AS SHOWN DATE: DECEMBER, 2019

| TRENCH DESIGN | | | | | | | | | |
|---------------|--------------|--------------------|-------------------|----------------------------|---------------------|------------------------|---------------------------|---------------------|-----------------------|
| TRENCH | GROUND ELEV. | TOP OF STONE ELEV. | PIPE INVERT ELEV. | DEPTH TO STONE FROM GROUND | DEPTH OF STONE (FT) | BOTTOM OF TRENCH ELEV. | EFFECTIVE DEPTH STARTS AT | EFFECTIVE DEPTH (D) | WIDTH OF TRENCHES (W) |
| A1 & A2 | 406.8 | 405.3 | 404.8 | 1.5' | 5.5' | 399.8 | 5.5' | 1.5' | 3.0' |
| B1 & B2 | 404.2 | 402.7 | 402.2 | 1.5' | 5.5' | 397.2 | 5.5' | 1.5' | 3.0' |
| C1 & C2 | 402.0 | 400.5 | 400.0 | 1.5' | 5.5' | 395.0 | 5.5' | 1.5' | 3.0' |

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21042
(410) 461 - 2895

OWNER
WILLIAMSBURG GROUP, LLC
C/O BOB CORRETT
5485 HARPERS FARM ROAD, SUITE 200
COLUMBIA, MARYLAND 21044
410-997-8800

