



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: 9/1/21

ONSITE SEWAGE DISPOSAL SYSTEM

P 570136

APPROVAL DATE: 9/14/21 SP

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 15445 Rivercrest Court

SUBDIVISION: Rivercrest

LOT: 6

TAX ID: _____

CONTRACTOR: Hatfields Equipment

EMAIL: _____

CONTRACTOR ADDRESS: P.O. BOX 519, ANNAPOLIS JUNCTION, MD 20701

PHONE: 301-490-4289

PROPERTY OWNER: Roxbury Farm, LLC

EMAIL: _____

OWNER ADDRESS: 6420 Autumn Sky Way

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: Babylon Vault

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 4

APPLICATION RATE: 0.8

TRENCHES:	LINEAR FEET REQUIRED: <u>156.25</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:	Install 3 trenches @52.08 each	

ISSUED BY: Hank Oswald

ISSUE DATE: 9-1-21

EXPIRATION DATE: 9-1-22

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.

Rivercrest Ct

NOT TO SCALE

1" = 30'

HO-94-3840 (W)

81'

22'

30'

15445 Rivercrest Ct

2'

36'

45'

78'

100'

39'

26'

60'

14'

60'

60'

10'

10'

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
3'	4'	4'

NUMBER OF TRENCHES 3

TOTAL LENGTH 180'

ABSORPTION AREA 540 sq ft + sidewalk

DISTRIBUTION BOX LEVEL yes

DISTRIBUTION BOX BAFFLE yes

DISTRIBUTION BOX PORT yes

SEPTIC TANK DATA

SEPTIC TANK 1 LEVEL

MANUFACTURER Babylon

CAPACITY 2000 GAL

SEAM LOC top

TANK LID DEPTH 1'-1.5'

BAFFLES inlet + outlet

BAFFLE FILTER -

MANHOLE LOC inlet + outlet

6" PORT LOC -

WATERTIGHT TEST -

SLOTTED yes

DATE ON LID 8-2-21

PUMP/SEPTIC TANK LEVEL

MANUFACTURER

CAPACITY GAL

SEAM LOC

TANK LID DEPTH

BAFFLES

BAFFLE FILTER

MANHOLE LOC

6" PORT LOC

WATERTIGHT TEST

SLOTTED

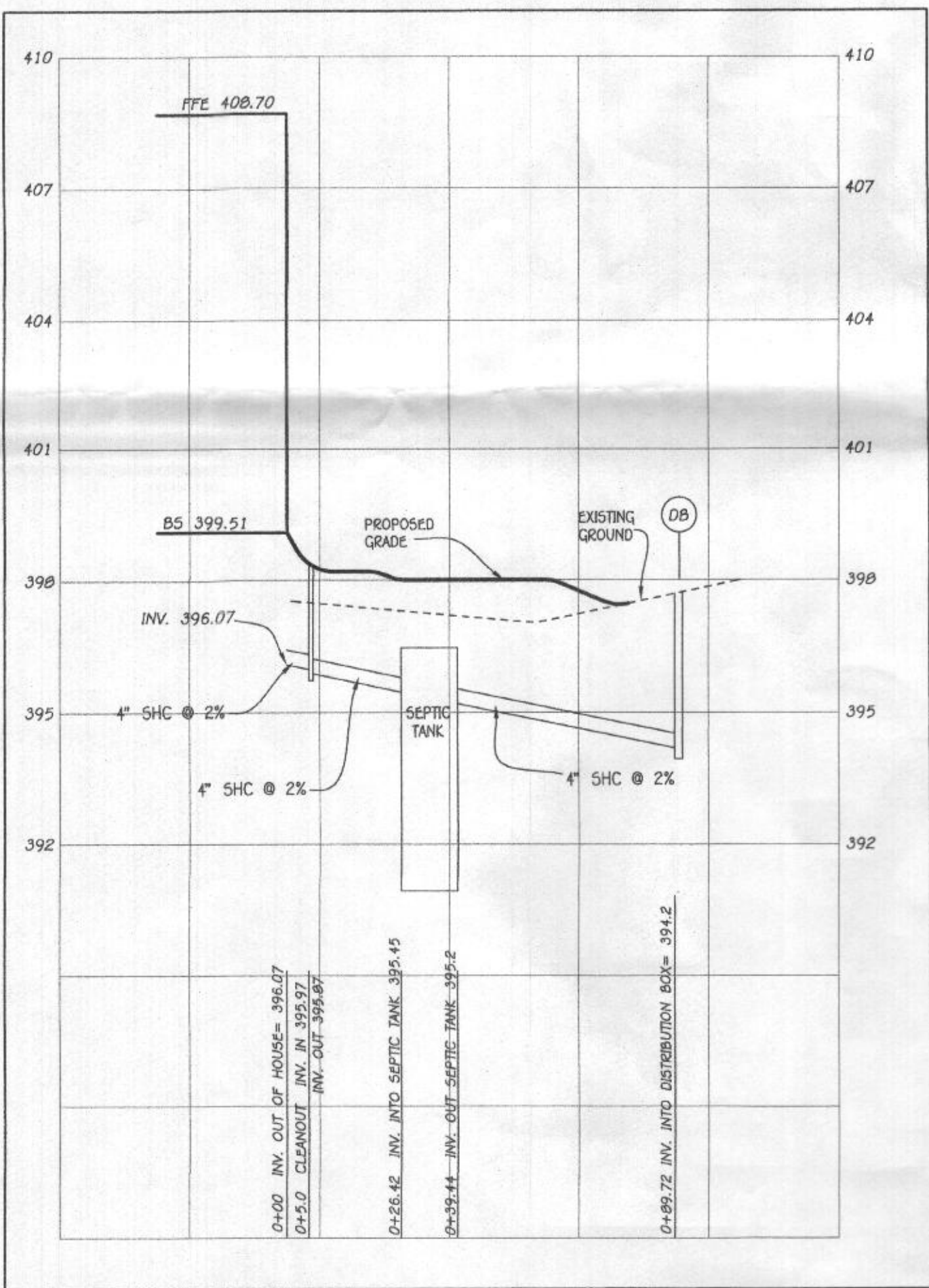
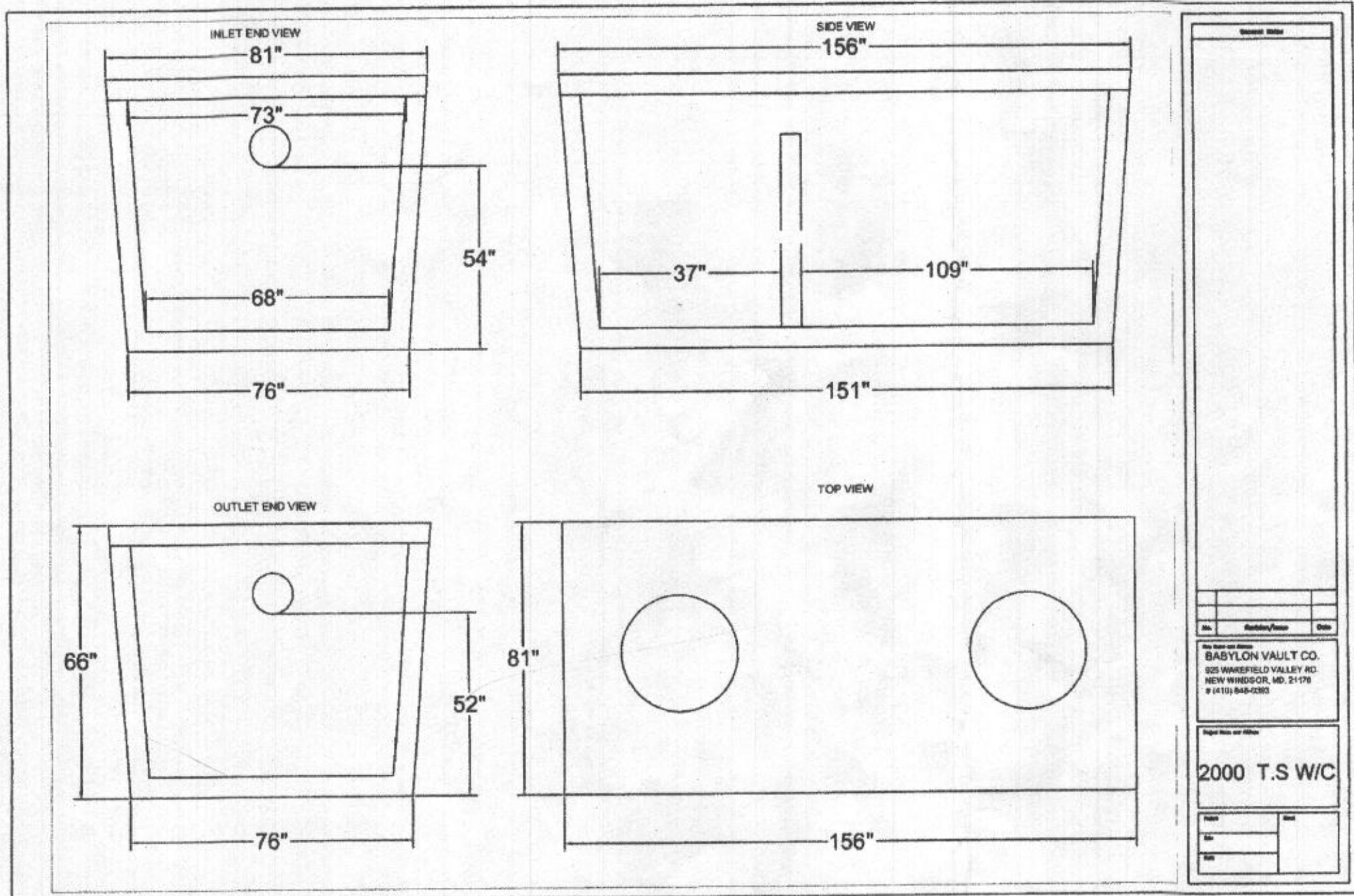
DATE ON LID

PRE-CONSTRUCTION:

9/10/21 3x52' trenches staked out on contour acc to plan (SP)

INSTALLATION: 9/13/21 SHC, SL, tank and d-box set. Contractor will support SL with stone. Two 60' trenches complete (SP) 9/14/21 Last trench complete, d-box leveled. (SP)

FINAL INSPECTOR Susan Thomas DATE OF APPROVAL 9/14/21



SEPTIC PROFILE
SCALE: 1"=30'

INITIAL SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS

LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
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 / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+2(2)) = .625$
TRENCH LENGTH = 250 SF x 0.625 = 156.25 FEET
(USE 3 TRENCHES AT 52.08 L.F.)
TRENCH SPACING = $2D+W = ((2 \times 2) + 3) = 7'$ USE 10'

1ST REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS

LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4 FEET
SF OF DRAINFIELD = 600 GPD / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+2(4)) = .5$
TRENCH LENGTH = 250 SF x 0.416 = 125.00 FEET
(USE 2 TRENCHES AT 62.50 L.F.)
TRENCH SPACING = $2D+W = ((2 \times 3) + 3) = 9'$ USE 10'



PLAN

SCALE: 1" = 30'

2ND REPLACEMENT SYSTEM

SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 4 BEDROOMS (PERMIT FOR 3 BEDROOMS)

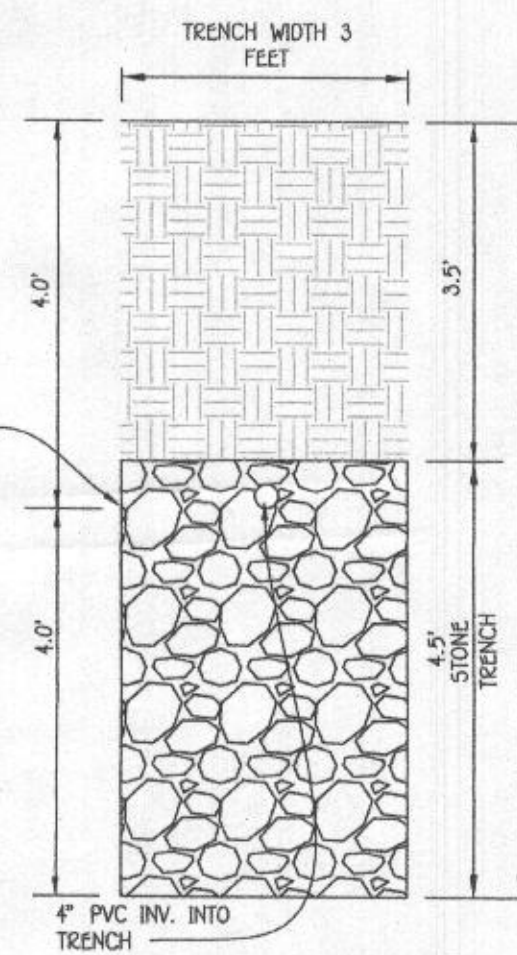
LOADING RATE = 4 BEDROOMS X 150 GPD/BEDROOM = 600 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 8 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 4.5 FEET
SF OF DRAINFIELD = 600 GPD / 0.8 = 750 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+2(4.5)) = .55$
TRENCH LENGTH = 250 SF x 0.55 = 137.50 FEET
(USE 2 TRENCHES AT 68.75 L.F.)
TRENCH SPACING = $2D+W = ((2 \times 4.5) + 3) = 10'$ USE 11'

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. THE WELL HO-94-3840 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
4. 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.

TRENCH DATA:

TRENCH 1:
EX. GROUND ABOVE = 398.1
INV. IN = 394.1
BOTTOM TRENCH = 390.1
TRENCH 2:
EX. GROUND ABOVE = 397.0
INV. IN = 393.0
BOTTOM TRENCH = 389.0
TRENCH 3:
EX. GROUND ABOVE = 396.5
INV. IN = 392.5
BOTTOM TRENCH = 388.5

GEOTEXTILE FABRIC



SEPTIC SYSTEM INSTALLATION SITE PLAN

LOT 6
15445 RIVERCREST COURT
RIVERCREST
ZONED: RC-DEO

TAX MAP NO.: 21 PARCEL NO. 84 GRID NO.: 20
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: DECEMBER 9, 2020

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. 2748, EXPIRATION DATE: 02/22/2021.



Michael V. Vancie
Signature of Professional Engineer

1/9/21
DATE

BUILDER

COLUMBIA BUILDERS, INC.
P.O. BOX 999
COLUMBIA, MARYLAND 21044
410-324-4732

OWNER

ROXBURY FARM, LLC
C/O COLUMBIA DEVELOPERS LLC
6420 AUTUMN SKY WAY
COLUMBIA, MARYLAND 21044
410-730-3940

Approved Septic System Plan
Howard County Health Department
Robert J. ...
Signature Date 1/14/2021

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. 24027C0045D, EFFECTIVE 11/6/2013.
- 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-94-6040 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 10/04/2022.
- 7) BUILDING PERMIT NUMBER: B-21000745

Legend

- Existing 24' Wide Private Use-In-Common Access, Driveway Access And Utility Easement Across Lots 5, 6, 11 And 12 For The Use And Benefit Of Lots 5, 6, 11 And 12 And Buildable Preservation Parcel 'A' (Plat Nos. 10208 Thru 10210 And Liber 9953 At Folio 550) Removed By Recordation Of This Plat
- Existing 10' Public Tree Maintenance Easement (Plat Nos. 10208 Thru 10210)
- Existing Private Sewerage Easement
- Existing Public Forest Conservation Easement (Plat Nos. 10208 Thru 10210)
- Amended Private Use-In-Common Access Driveway & Utility Easement Across Lots 4, 5, 6, 11 And 12 For The Use And Benefit Of Lots 4, 5, 6, 11 And 12 And Buildable Preservation Parcel 'A' Maintenance Agreement Recorded Simultaneously With This Plat

Amended Private Use-In-Common Access Driveway & Utility Easement For The Use And Benefit Of Lots 4, 5, 6, 11, 12 And Buildable Preservation Parcel 'A'

Line Table Chart

LINE	BEARING	LENGTH
L1	S 05°36'48" E	34.09'
L2	N 76°10'38" E	71.06'
L3	N 70°55'05" E	109.42'
L4	R=330.00'	L=90.75'
L5	N 54°10'43" E	96.50'
L6	R=230.00'	L=36.48'
L7	R=3112.00'	L=157.47'
L8	N 48°17'47" E	159.74'
L9	R=103.00'	L=91.96'
L10	N 06°22'14" W	16.06'
L11	N 16°56'33" W	210.55'
L12	S 16°56'33" E	210.32'
L13	S 06°22'15" E	19.00'
L14	S 06°22'15" E	19.00'
L15	R=127.00'	L=114.16'
L16	S 48°17'47" W	159.74'
L17	R=3080.00'	L=131.00'
L18	S 20°54'05" W	117.15'
L19	S 24°10'43" W	35.52'
L20	R=362.00'	L=105.76'
L21	S 70°55'05" W	110.56'
L22	S 76°10'38" W	75.97'
L23	N 05°36'48" W	32.45'
L24	R=50.00'	L=24.07'
L25	N 08°28'51" W	24.62'

Rivercrest Court

Existing 40' R/W
(Plat Nos. 10208 Thru 10210)
R=500.0'
L=6.25'

Existing 10' Private Tree Maintenance Easement
(Plat Nos. 10208 Thru 10210)

LOT 4

LOT 5

LOT 6

LOT 11

LOT 12



#15445 RIVERCREST COURT
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 407.3'±

PROPERTY LINE SURVEYOR
REG. # 339
DATE 5/25/21

HOUSE LOCATION DRAWING

FOUNDATION LOCATION: 5/24/2021
FINAL LOCATION:
BOUNDARY SURVEY:
SCALE: 1"=40'
DATE: 5/25/2021
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No. 30636-2001

PLAT OF REVISION
LOT 6
RIVERCREST
LOTS 4, 5, 6, 11 AND 12
PLATS #24723 THRU #24725
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL POLE
ELICOTT CITY, MARYLAND 21042
(410) 461-2095