



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: 8/14/19 **ONSITE SEWAGE DISPOSAL SYSTEM**

P 565595

APPROVAL DATE: 08/28/2019 **PERMIT: CONSTRUCTION**

A _____

PROPERTY ADDRESS: 15415 RIVERCREST COURT

SUBDIVISION: RIVERCREST

LOT: 1

TAX ID: 04-370562

CONTRACTOR: SOUTH CARROLL BACKHOE, INC.

EMAIL: _____

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD, WESTMINSTER, MD 21157

PHONE: (410)875-4197

PROPERTY OWNER: AARON A and RACHEL M SKRBIN

EMAIL: askrbn@nvrinc.com

OWNER ADDRESS: 7139 FOX HARBOR WAY, ELKRIDGE, MD 21075

PHONE: (240)793-6446

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER: BABYLON

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>174</u>	INLET DEPTH: <u>2.0</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>6.0</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>5.0</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND TANK LOCATIONS MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	No fill is permissible on SDA.	

ISSUED BY: R BRICKER

H.G.

ISSUE DATE: 8/14/19

EXPIRATION DATE: 8/14/20

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 n.a.

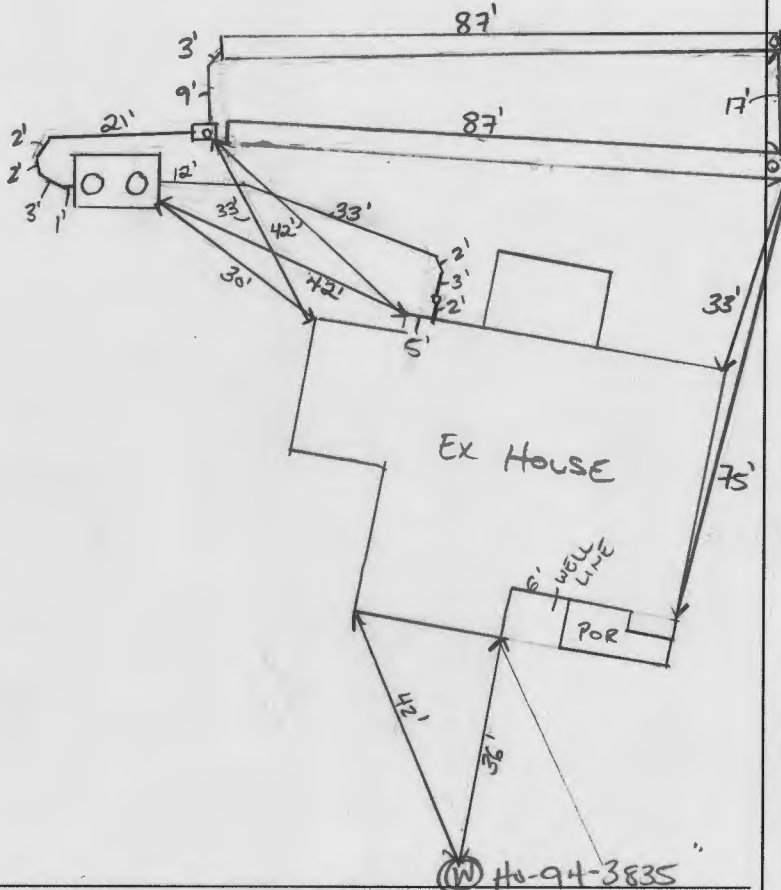
NOTE: MDE RECOMMENDS SEPTIC TANKS, BAT, AND OTHER PRETREATMENT UNITS BE PUMPED AT A FREQUENCY ADEQUATE TO ENSURE THAT SOLIDS ARE NOT DISCHARGED TO THE DISPOSAL AREA

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



ROAD NAME
RIVERCREST COURT

TRENCH/DRAINFIELD DATA

WIDTH 3' INLET 6\" BOTTOM 6'
NUMBER OF TRENCHES 2
TOTAL LENGTH 174 F
ABSORPTION AREA 522 SF + SIDE WALL
DISTRIBUTION BOX LEVEL SPEED
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 2.5'
BAFFLES YES
BAFFLE FILTER no
MANHOLE LOC Front and back
6\" PORT LOC N/A
WATERTIGHT TEST -
SLOTTED yes
DATE ON LID 7-2-19

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:

08/23/2019 TANK, SDIA, TRENCHES STAKED. MUCH FILL (~1' IN MIDDLE, 6'-7' ON ENDS). USE LASER LEVEL TO ORIGINAL HORIZON. OK TO START. (+)

INSTALLATION: 8/26/19 Observed septic tank. Reinspect for baffles. Upper trench dug - max bottom depth 8'. Inlet depth at 3'. Reinspect for regrade. Corrective action: remove fill. \$
supposed to be 6' 08/27/2019 SENT MOV FOR FILL REMOVAL (+) (PM)
LOWER TRENCH COMPLETE. D Box INSTALLED. LEVELED W/ SPEED LEVELS. (+) (PM). SHC AND SEWER LINE INSTALLED. INLET BAFFLE INSTALLED. (+).

FINAL INSPECTOR

DATE OF APPROVAL

08/28/2019

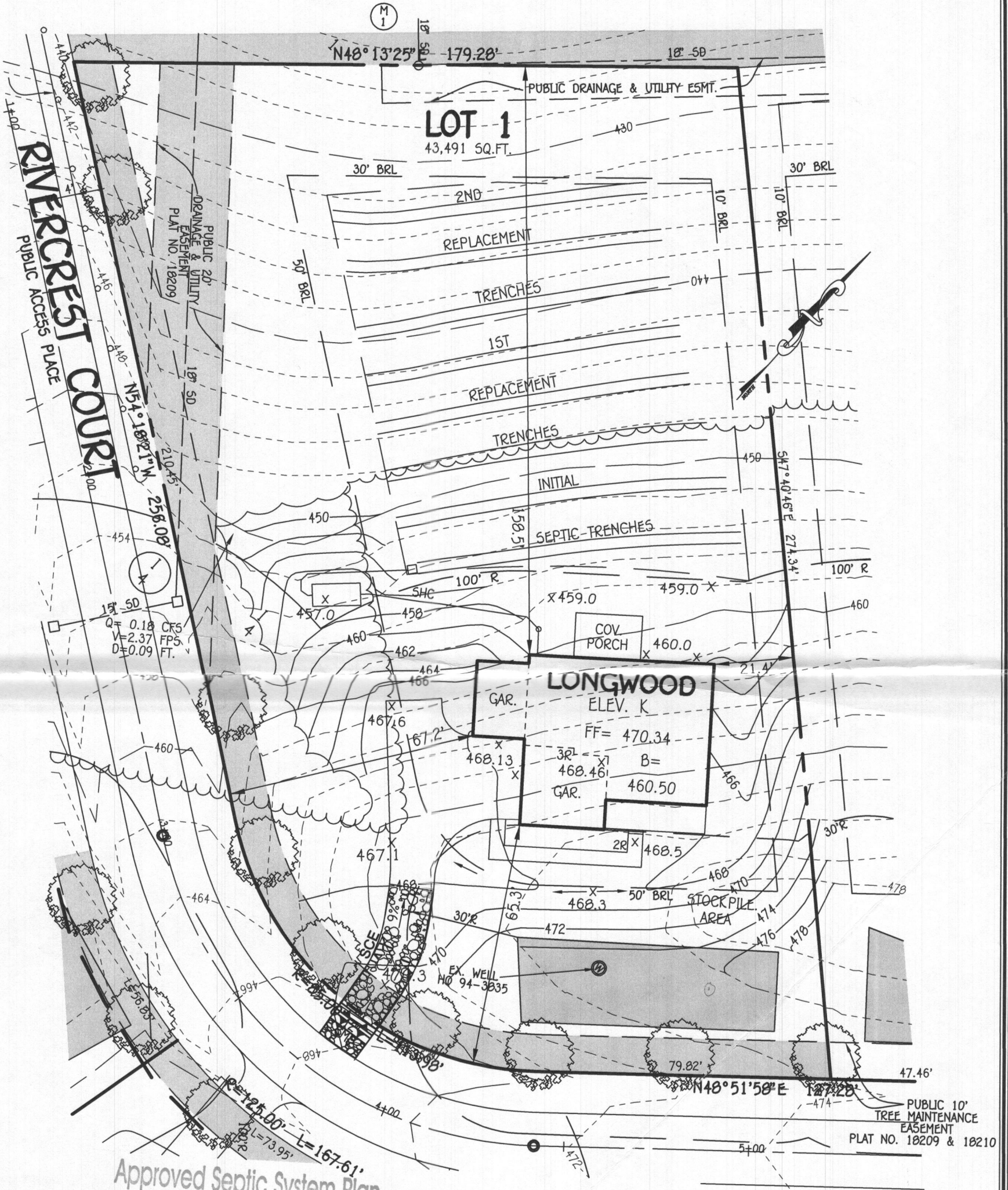
NOTE

STORMWATER MANAGEMENT IS BEING PROVIDED BY FACILITY LOCATED ON NON-BUILDABLE PRESERVATION PARCEL 'C'

NON-BUILDABLE PRESERVATION PARCEL 'C' SWM FACILITY (PER F-04-057)

NOTE

THE EXISTING WELL SHOWN ON THIS PLAN, TAG NO. HO #94-0388, HAS BEEN FIELD LOCATED BY FISHER, COLLINS & CARTER, INC., PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.



Approved Septic System Plan
Howard County Health Department
5-bedroom SFD
as illustrated

R. B. Fisher
Signature for I.E.P.

6/4/2019
Date

PLAN

SCALE: 1"=30'

PERMIT PLAN RIVERCREST LOT 1

ZONED: RC-DEO PLAT NO.: 18208 THRU 18210
TAX MAP NO.: 21 GRID NO.: 20 PARCEL NO.: 84
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 15, 2016

SHEET 1 OF 1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLICOTT CITY, MARYLAND 21042
(410) 461 - 2855

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 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. 24027C00450 EFFECTIVE 11/6/2013.
- 3) THE EXISTING WELL(S) SHOWN ON THIS PLAN (IDENTIFIED WITH THE ATTACHED WELL TAG NUMBER HO-94-3835 HAS BEEN FIELD LOCATED BY FISHER, COLLINS AND CARTER, INC. PROFESSIONAL LAND SURVEYORS AND IS ACCURATELY SHOWN.
- 4) THE OFFSETS FROM BUILDING LINE TO PROPERTY LINE AS SHOWN ON THE PLAT HEREON ARE TO AN ACCURACY OF PLUS OR MINUS 1'.
- 5) NO TITLE REPORT FURNISHED. SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY AND CONDITIONS OF RECORD.
- 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-19001591

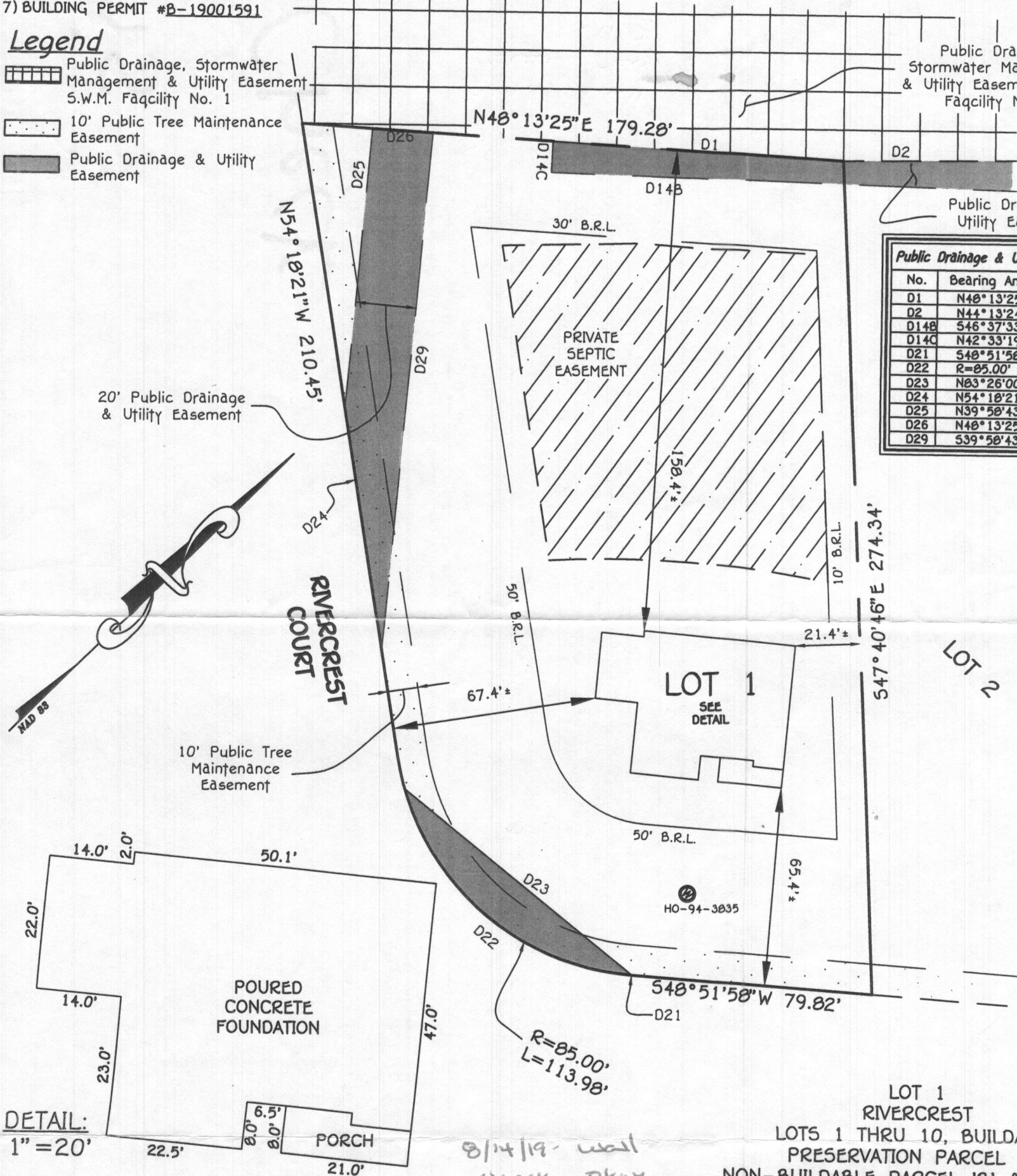
Legend

- Public Drainage, Stormwater Management & Utility Easement S.W.M. Facility No. 1
- 10' Public Tree Maintenance Easement
- Public Drainage & Utility Easement

Public Drainage, Stormwater Management & Utility Easement S.W.M. Facility No. 1

Public Drainage & Utility Easement

Public Drainage & Utility Easement	
No.	Bearing And Distance
D1	N48°13'25"E 96.17'
D2	N44°13'24"E 58.99'
D14B	S46°37'33"W 153.64'
D14C	N42°33'19"W 10.28'
D21	S48°51'58"W 0.36'
D22	R=85.00' L=102.92'
D23	N83°26'00"E 97.04'
D24	N54°18'21"W 80.82'
D25	N39°58'43"W 92.06'
D26	N48°13'25"E 20.01'
D29	S39°58'43"E 171.00'



LOT 1
RIVERCREST
LOTS 1 THRU 10, BUILDABLE
PRESERVATION PARCEL 'A',
NON-BUILDABLE PARCEL 'B' & 'C' AND
NON-BUILDABLE BULK PARCEL 'D'
PLATS #18208 THRU #18210
FOURTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

8/14/19 - well
check okay.
-H.O.

#15415 RIVERCREST COURT
B.R.L. = BUILDING RESTRICTION LINE
TOP OF FOUNDATION ELEVATION = 469.2'±

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



PROPERTY LINE SURVEYOR
REG. #339

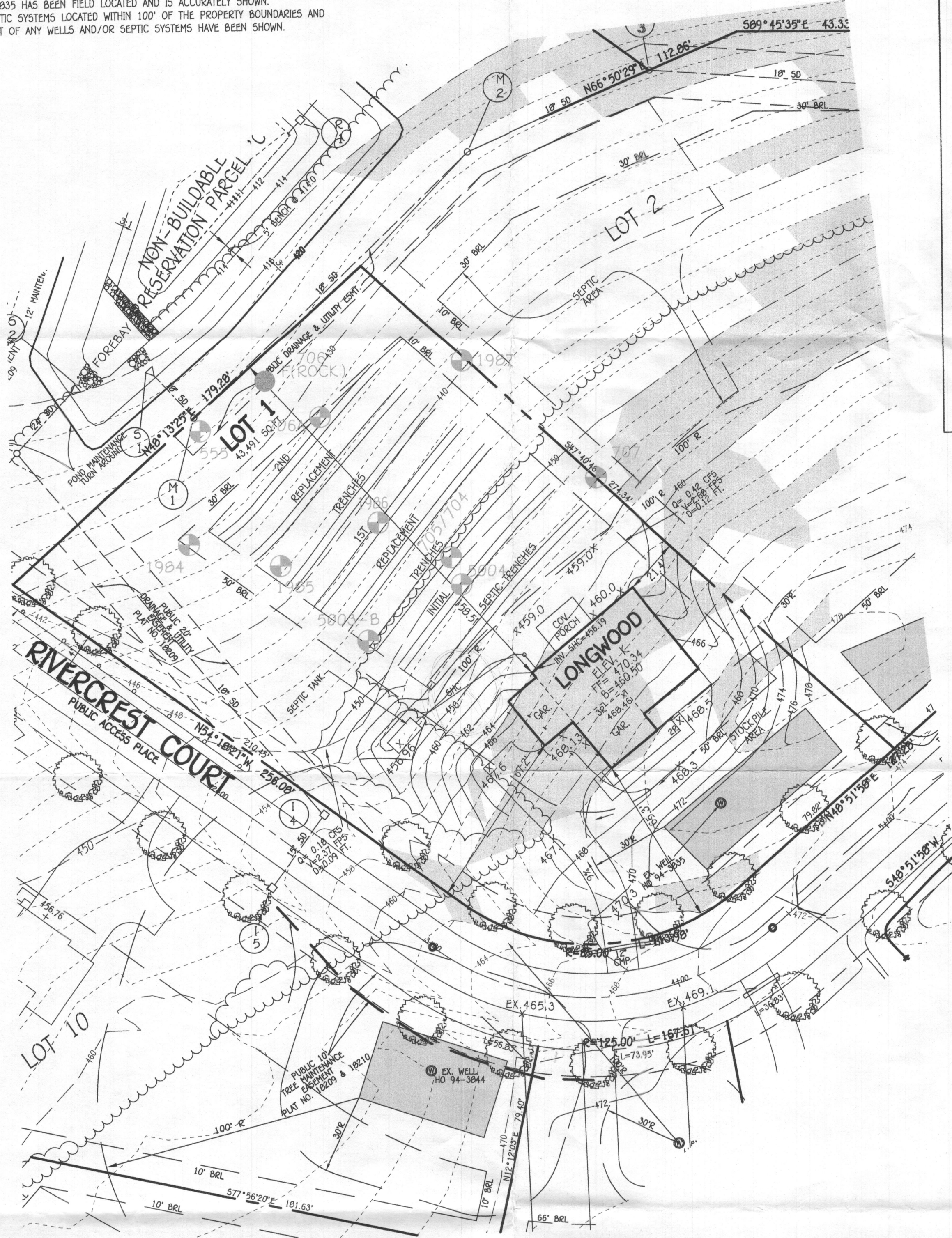
DATE
7/11/19

**HOUSE LOCATION
DRAWING**

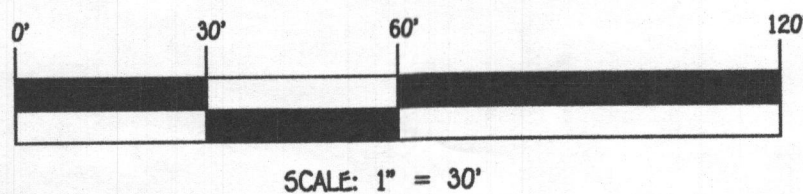
FOUNDATION LOCATION: 7/3/19
FINAL LOCATION:
BOUNDARY SURVEY:

SCALE: 1" = 40'
DATE: 7/11/19
DRAWN BY: MD
CHECKED BY: MLR
PROJECT No.: 30636-6001

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-94-3035 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
CENTENNIAL SQUARE OFFICE PARK - 10072 BALTIMORE NATIONAL PIKE
ELICOTT CITY, MARYLAND 21046
(410) 461-2895

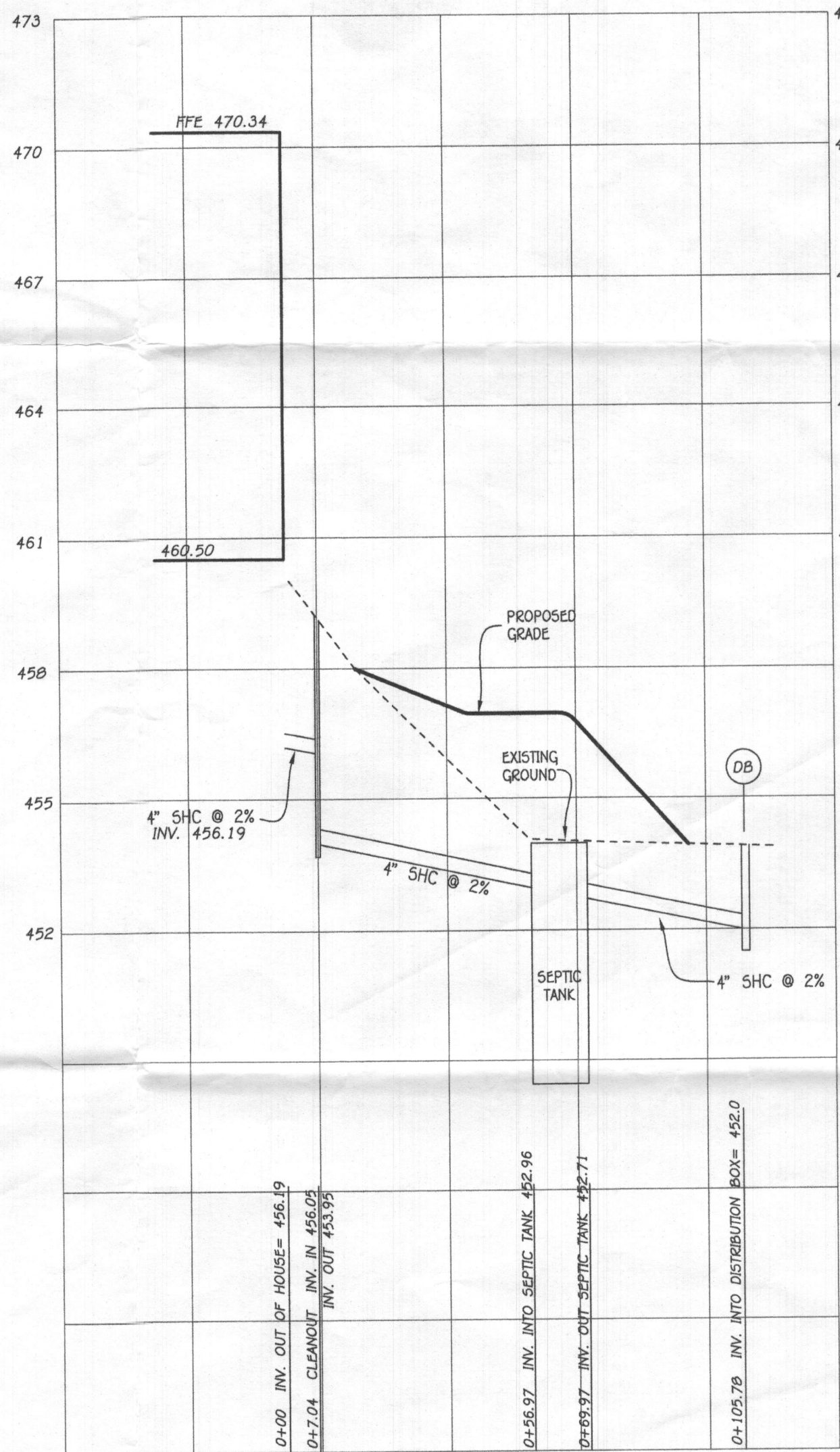
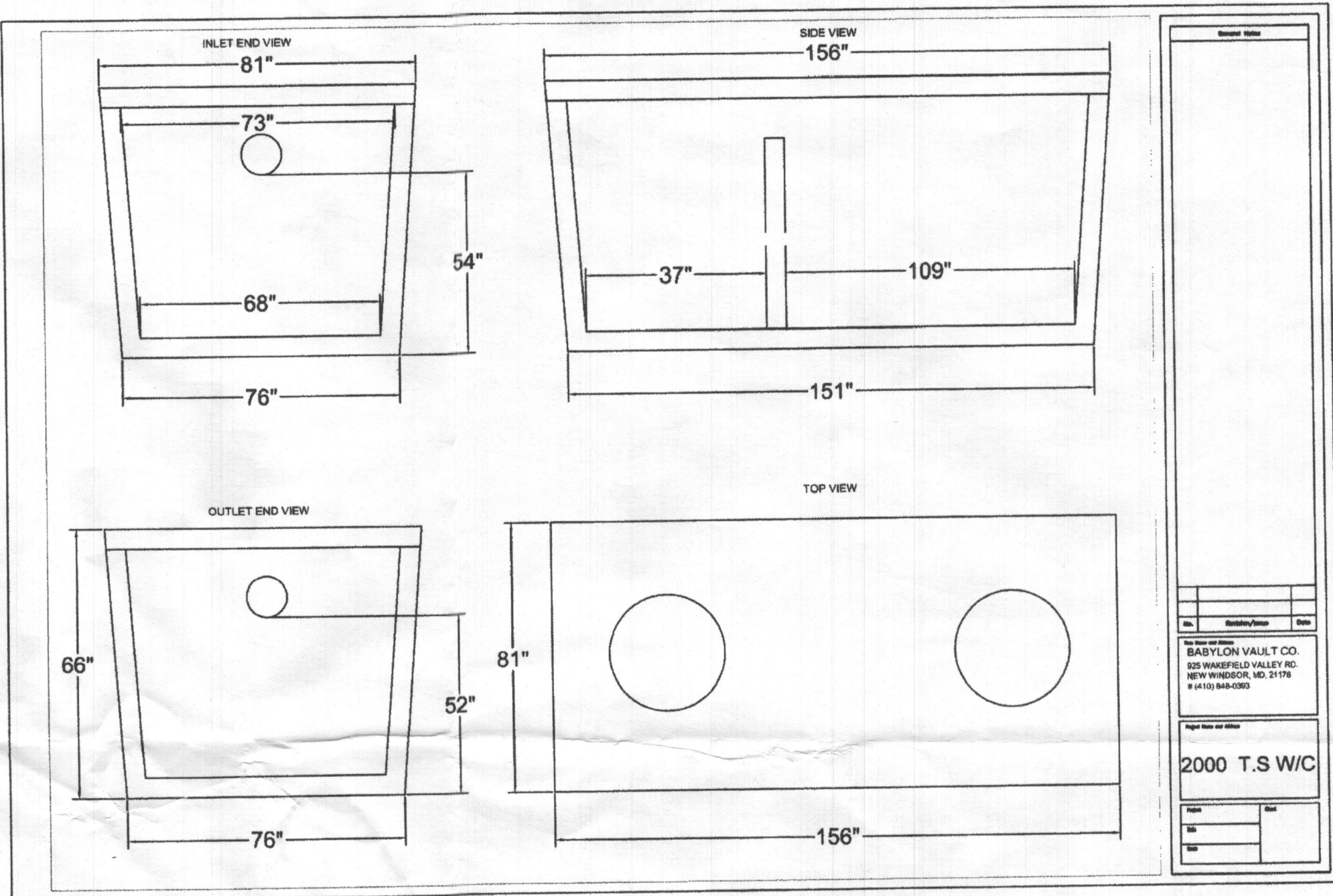
OWNER/DEVELOPER
NV HOMES
9720 PATUXENT WOODS DRIVE
COLUMBIA, MD 21046
410-379-5956



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. 20748, EXPIRATION DATE: 02/22/2021.

Signature of Professional Engineer
Date: 5/22/19



SEPTIC PROFILE
SCALE: 1" = 30'

FFE 470.34
BSE 460.50
INV. OUT OF HOUSE = 456.19
PROP. GROUND AT CLEANOUT #1 = 459.6
INV. INTO CLEANOUT = 454.05
INV. OUT OF CLEANOUT = 453.95
EX. GROUND AT SEPTIC TANK = 454.0
PROP. GRADE ABOVE SEPTIC TANK = 456.96
TOP OF SEPTIC TANK = 453.96
INV. INTO SEPTIC TANK = 452.96
INV. OUT OF SEPTIC TANK = 452.71
EX. GROUND AT DISTRIBUTION BOX = 453.9
INV. INTO DISTRIBUTION BOX = 452.0
INV. OUT OF DISTRIBUTION BOX = 451.9

Approved Septic System Plan
Howard County Health Department
2000-gal Septic Tank
to gravity drainfield
Buckley 6/4/2019
Signature Date

INITIAL SYSTEM

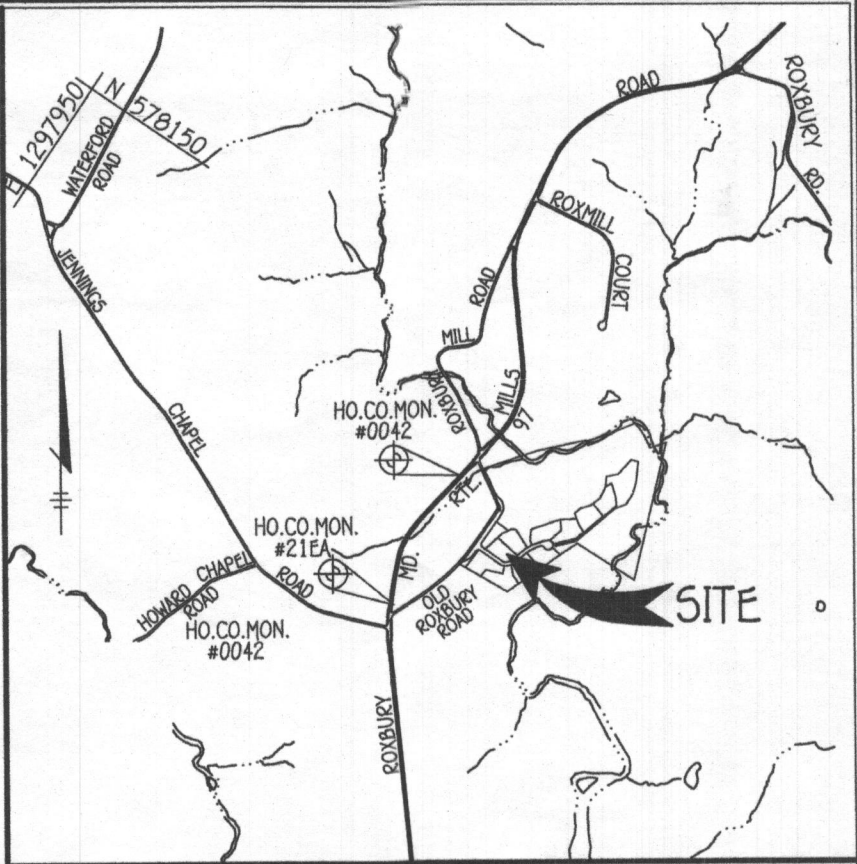
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR
5 BEDROOMS (PERMIT FOR 4 BEDROOMS)
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =
(W+2)/(W+1+2D) = (3+2)/(3+1+(2x1)) = .833
TRENCH LENGTH = 208.33 SF x .833 = 173.54 FEET
(2 TRENCHES AT 87.77)
TRENCH SPACING = 2D+W = ((2x1) + 3) = 5' USE 10'

1ST REPLACEMENT SYSTEM

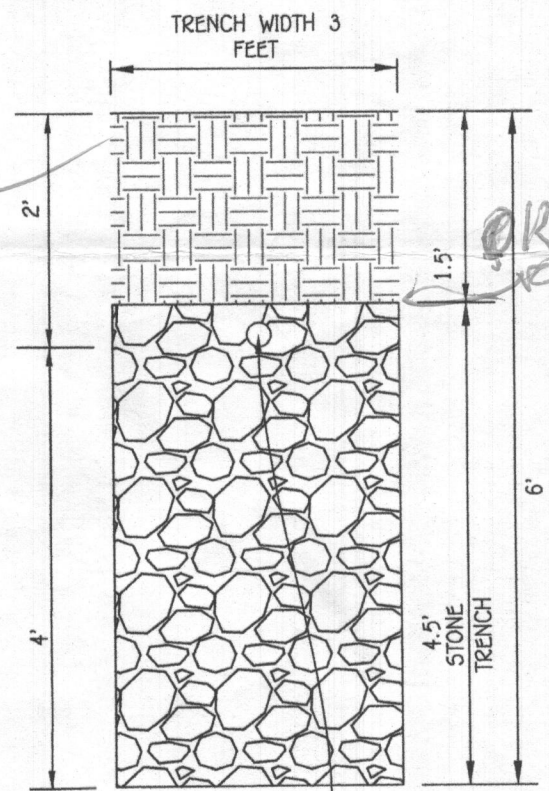
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EFFECTIVE DEPTH (D) = 1 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH =
(W+2)/(W+1+2D) = (3+2)/(3+1+(2x1)) = .833
TRENCH LENGTH = 312.50 SF x .833 = 260.31 FEET
(3 TRENCHES AT 86.77)
TRENCH SPACING = 2D+W = ((2x1) + 3) = 5' USE 10'

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
26	15211 TORINO WAY



VICINITY MAP
SCALE: 1" = 1200'



INITIAL TRENCH DETAIL
SCALE: 1" = 2'

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 5 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1 FEET
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(W+2)/(W+1+2D) = (3+2)/(3+1+(2x1)) = .833
TRENCH LENGTH = 312.50 SF x .833 = 260.31 FEET
(3 TRENCHES AT 86.77)
TRENCH SPACING = 2D+W = ((2x1) + 3) = 5' USE 10'

SEPTIC SYSTEM
INSTALLATION SITE PLAN
RIVERCREST

LOT 1
15415 RIVERCREST COURT

ZONED: RC-DEO PLAT NO.: 1820B THRU 1821D
TAX MAP NO.: 21 GRID NO.: 20 PARCEL NO.: 84
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 30' DATE: APRIL 30, 2019