



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: 3/21/2019 ONSITE SEWAGE DISPOSAL SYSTEM

P 564800

APPROVAL DATE: 6/14/19 PERMIT: CONSTRUCTION

A

PROPERTY ADDRESS: 13618 CURTIS VISTA WAY, CLARKSVILLE, MD 21029

SUBDIVISION: BRIGHTON MILL II LOT: 8 TAX ID: 05-600589

CONTRACTOR: SOUTH CARROLL BACKHOE EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 SALEM BOTTOM ROAD PHONE: (410)596-3618

PROPERTY OWNER: NVR, INC EMAIL: ccagle@nvrinc.com

OWNER ADDRESS: 9720 PATUXENT WOODS DRIVE, COLUMBIA, MD 21046 PHONE: (410) 379-5956

SEPTIC TANK SIZE (GALLONS): 2000 TANK MANUFACTURER: MAYER BROS., INC

PUMP MODEL: n.a. PUMP SIZE n.a. PUMP TANK CAPACITY: n.a.

DISTRIBUTION SYSTEM: [X] GRAVITY [ ] PRESSURE DOSED BEDROOMS: 5 APPLICATION RATE: 1.2

Table with 2 columns: Field Name (TRENCHES, LOCATION, NOTES) and Field Value (Linear feet required, trench width, etc.)

ISSUED BY: R BRICKER ISSUE DATE: 3/21/2019 EXPIRATION DATE: 3/21/2020

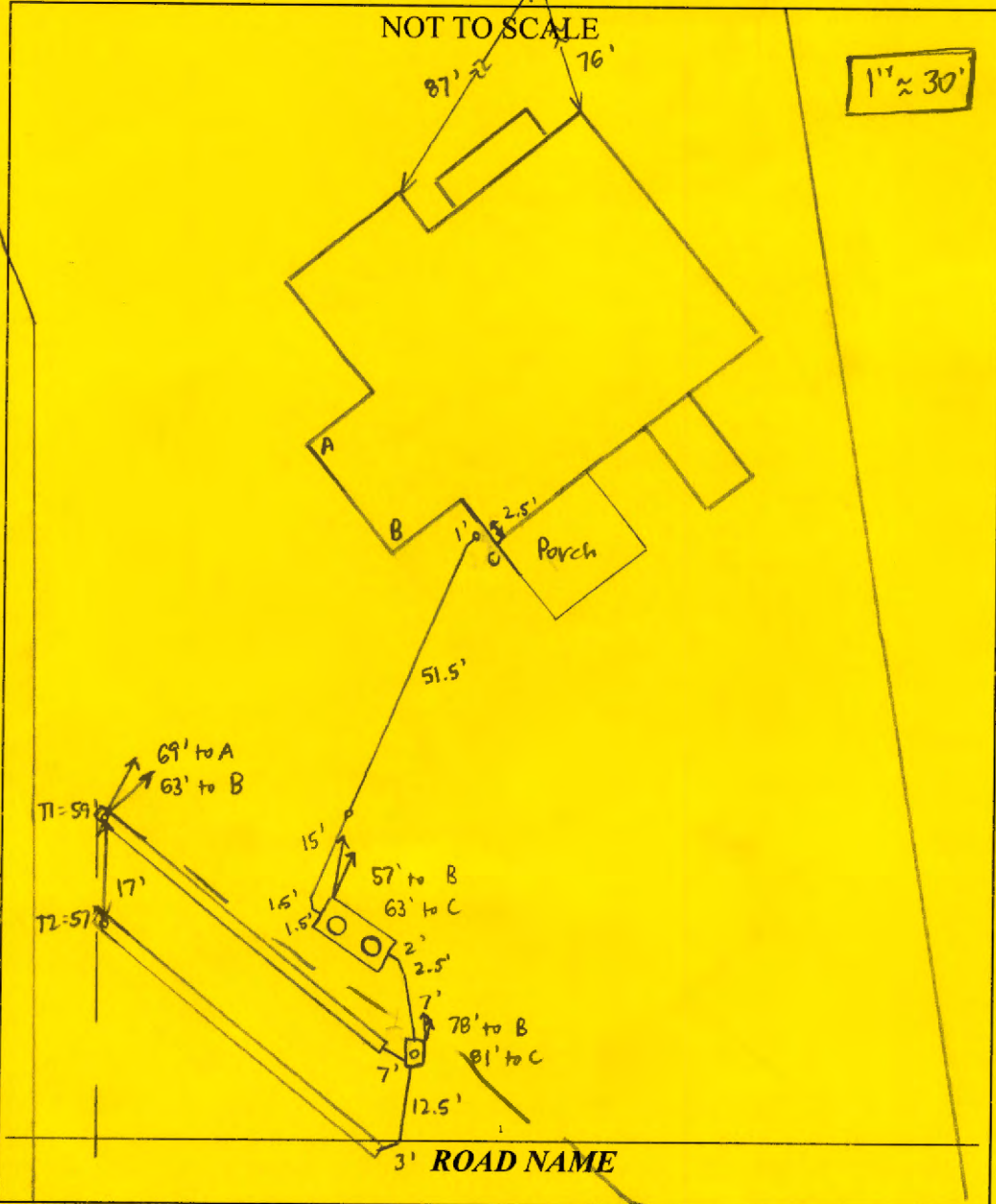
- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
NOTE: 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
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.

HO-17-0154

NOT TO SCALE

1" = 30'



TRENCH/DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3'	6'
NUMBER OF TRENCHES		2
TOTAL LENGTH		116'
ABSORPTION AREA		348' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK I LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
SEAM LOC	TOP
TANK LID DEPTH	2'
BAFFLES	YES
BAFFLE FILTER	NO
MANHOLE LOC	FRONT + REAR
6" PORT LOC	NONE
WATERTIGHT TEST	NO
SLOTTED	YES
DATE ON LID	2-22-19

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:

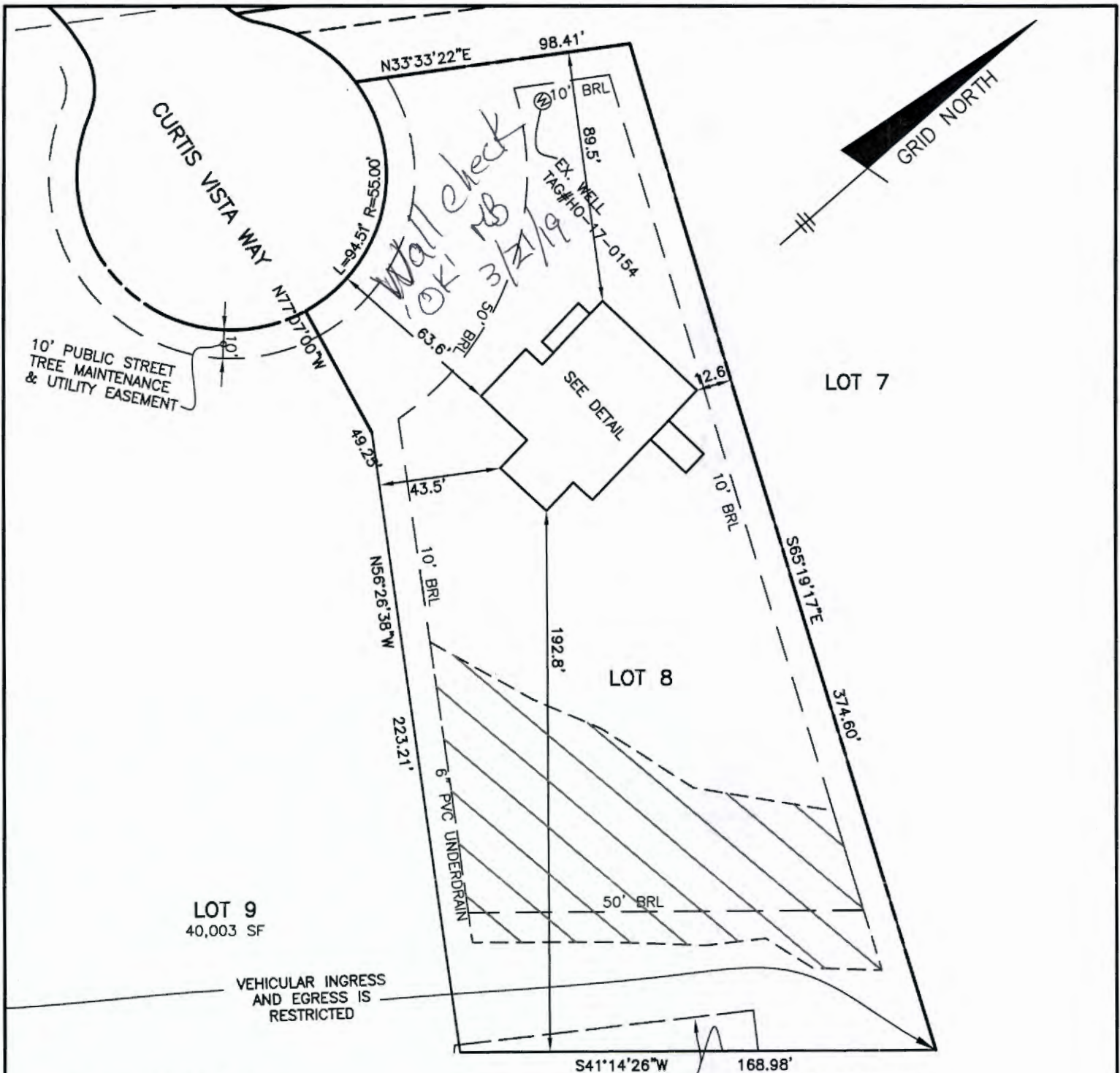
4/11/19 Met S. Carroll on site for layout. Tank stake present, all SDA corner stakes present except front corner closest to lot 9. Need that corner stake in order to layout trenches. Also stake biopond to confirm setbacks to SDA + tank and to route sewer line. OK to set tank. (SC) 4/12/19 SDA corners staked. Shot contour + laid out 2x58' trenches. Upper trench to be 5' off tank. (SC)

INSTALLATION:

4/15/19 Tank set. T1 dug + left open at ends for inspection, 3' wide and 2.5' to stone. S. Carroll adding stone to T2, 3' wide + 6' bottom. Levelled speed buelers in D-box. Need house connection. (SC) 4/16/19 Pipe laid from house to tank, still need base connection. (SC) 4/23/19 on site to see house connection. Pipe at house covered by mud, can't see if it's connected. Run water in house + check @ first clo. Notified builder. (SC) House connection confirmed (pen)

FINAL INSPECTOR [Signature]

DATE OF APPROVAL 6/14/19



**BROCCOLINO WAY**  
PUBLIC ACCESS STREET  
PLAT No. 19461

VEHICULAR INGRESS  
AND EGRESS IS  
RESTRICTED

EXISTING VARYING WIDTH  
PRIVATE STORM DRAIN,  
DRAINAGE & UTILITY  
EASEMENT  
LIBER 10317 FOLIO 142

TOP OF FOUNDATION WALL = 543.6'  
OFFSET DIMENSIONS TO PROPERTY LINES ARE ± 0.1'

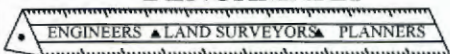
**SURVEYOR'S CERTIFICATE**  
I HEREBY CERTIFY THAT THESE DOCUMENTS, WERE PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE, AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 21320, EXPIRATION DATE 1-7-2021 AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF, THAT THE DIMENSIONS OF THE BUILDING WALLS SHOWN HEREDN ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 03/13/2019.

*Donald A. Mason* 3/13/19

DONALD A. MASON  
PROFESSIONAL LAND SURVEYOR  
MARYLAND REG. No. 21320

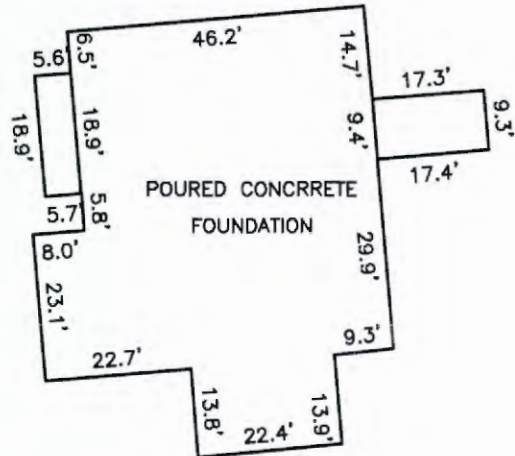
FEMA FIRM No. 24027C0130D  
ZONE: X  
DATED: 11/6/2013

**BENCHMARK**



**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644



**FOUNDATION DETAIL**  
SCALE: 1" = 30'

**WALL CHECK**  
**BRIGHTON MILL II**  
**LOTS 1 THROUGH 12**  
**PLAT No. 24471**  
**LOT No. 8**

13618 CURTIS VISTA WAY

5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

FIELD OBS. BY PJ  
COMP. BY EWF  
DRAWN BY EWF  
SCALE: 1" = 50' DATE: 03/13/2019



EXISTING PRIVATE PIPE LINE BASEMENT AND 30' FIBER OPTIC CABLE RIGHTS-OF-WAY

LOT 11 57,429 SF

LOT 10 41,909 SF

NON-BUILDABLE PRESERVATION PARCEL D 8,841 SF

LOT 5 30,292 SF

LOT 6 54,556 SF

EX. WELL BOX (L.B.A.)

REMOVED WELLS BOX 1,500 SF

LOT 8 48,928 SF

LOT 7 52,884 SF

NON-BUILDABLE PRESERVATION PARCEL C 18,078 SF

REMOVAL FROM S.D.A. ADDITION 109 SF

WATERING SYSTEM DRAIN, FLOWAGE & UTILITY EASEMENT

LIMITS OF WETLANDS

APPROXIMATE LOCATION OF EXISTING FIRE HYDRANT TRAILLINE

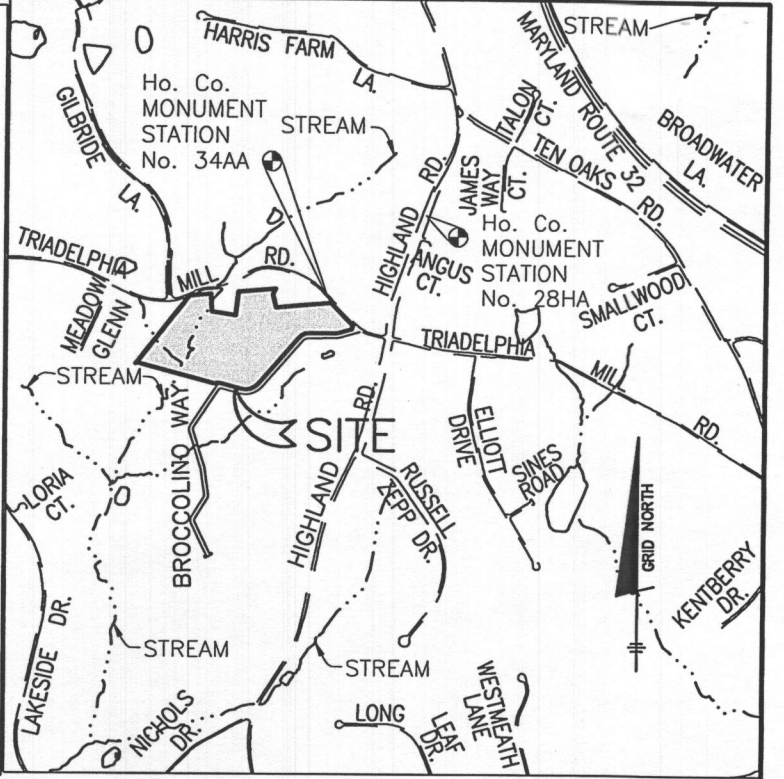
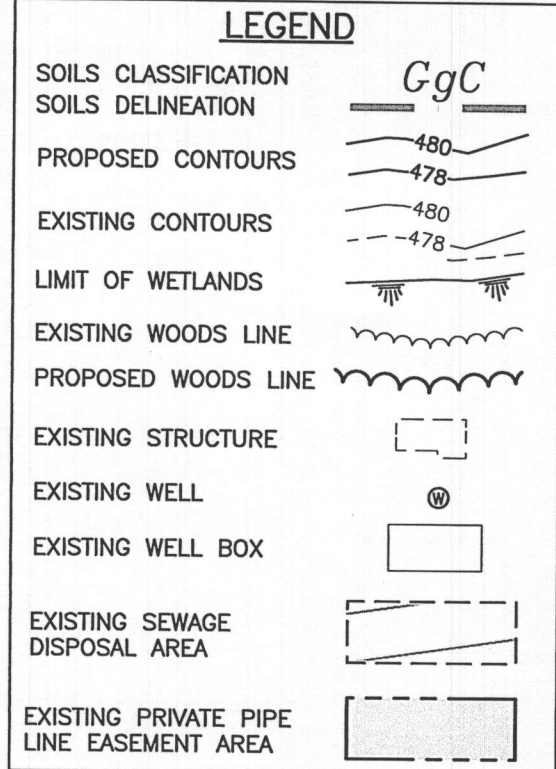
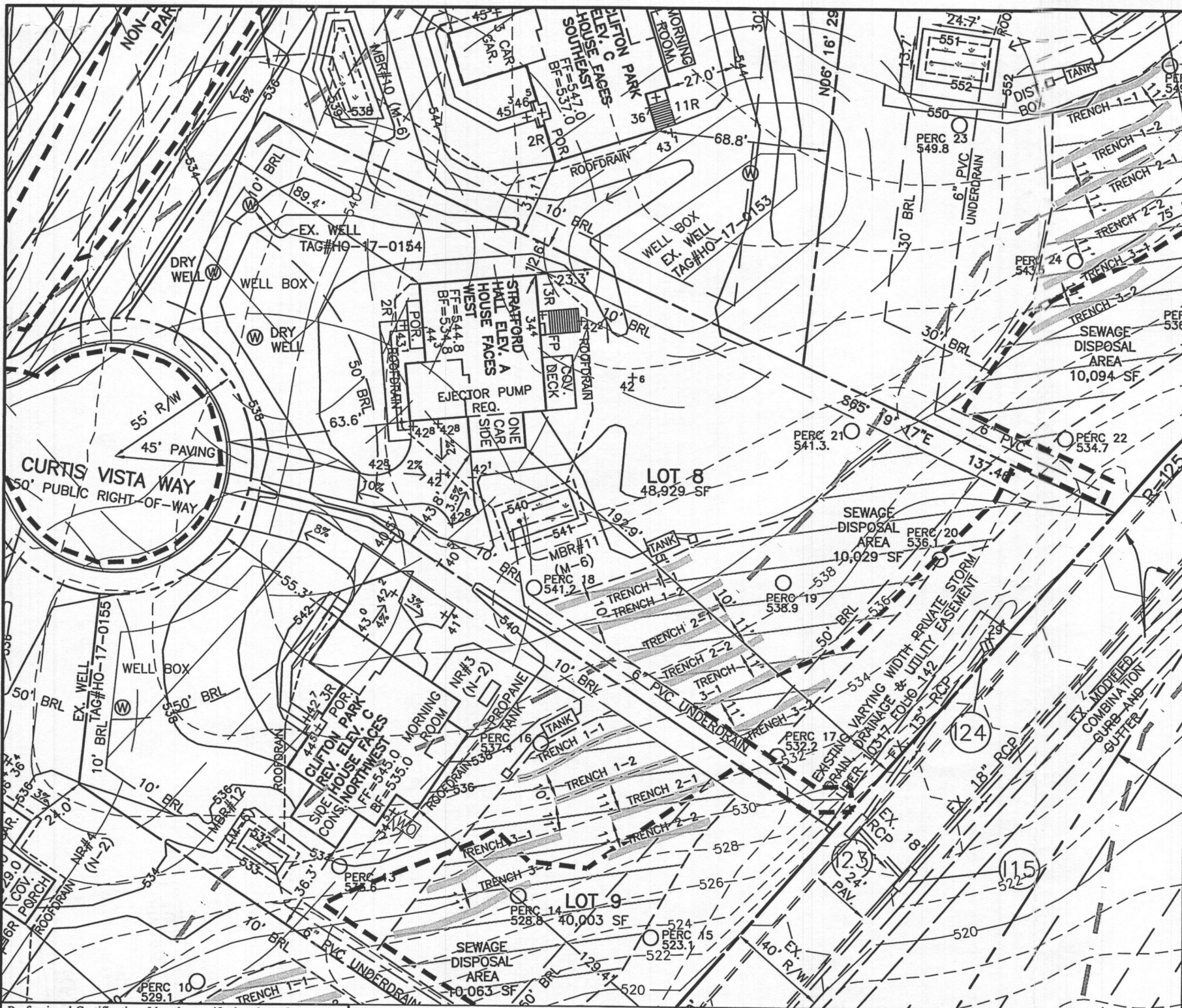
BROCCOLINO WAY PUBLIC ACCESS STREET

BUILDABLE PRESERVATION THO Parcel A 4.03 ACRES

PARCEL 213 13471-TRADEPHIA MILL ROAD

EXISTING PRIVATE 152' WIDE TRANSCONTINENTAL GAS PIPELINE RIGHT-OF-WAY DEED 215/69 547/235

EX. PUBLIC UTILITY



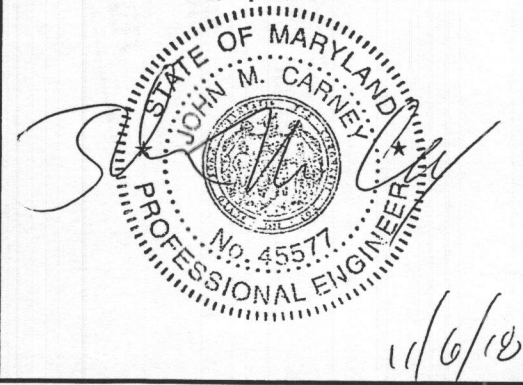
ADC MAP 24 GRID D8  
VICINITY MAP  
SCALE: 1" = 2000'

**ONSITE SEWAGE DISPOSAL PLAN NOTES:**

1. THE LOT SHOWN HEREON WAS RECORDED ON THE PLAT FOR BRIGHTON MILL II, PLAT Nos. 24469-24474. REFER TO THE PLATS FOR LOT DIMENSIONS, LOT AREAS, ALL EASEMENTS AND CONDITIONS.
2. SEDIMENT AND EROSION CONTROLS WERE APPROVED BY HOWARD SOIL CONSERVATION
3. TOPOGRAPHY SHOWN HEREON IS TAKEN FROM THE APPROVED ROAD CONSTRUCTION PLANS AND TOPOGRAPHIC INFORMATION PROVIDED BY F-17-054, ON OR ABOUT MAY, 2017. ALL SEDIMENT AND EROSION CONTROL FEATURES USED ON THIS SITE SHALL COMPLY WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
4. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
5. THE EXISTING WELL SHOWN ON THIS PLAN, HO-17-0154, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
6. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
7. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
8. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY ONE MICRO-BIORETENTION FACILITY AND THE BIORETENTION FACILITY ON PARCEL B. MICRO-BIORETENTION SHALL HAVE EITHER A 4" OR 6" ROOF LEADER DEPENDING ON ROOF-TOP AREA.
9. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
10. ANY CHANGES TO THE LOCATIONS OR DEPTHS T ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
11. THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
12. 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.

*Approved Septic System Plan  
Howard County Health Department  
2,000-gal Septic tank and  
gravity drain field for  
1.5-bedroom residence  
ABuehler  
11/19/2018  
Date*

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. 45577, Expiration Date: 06-08-2020.



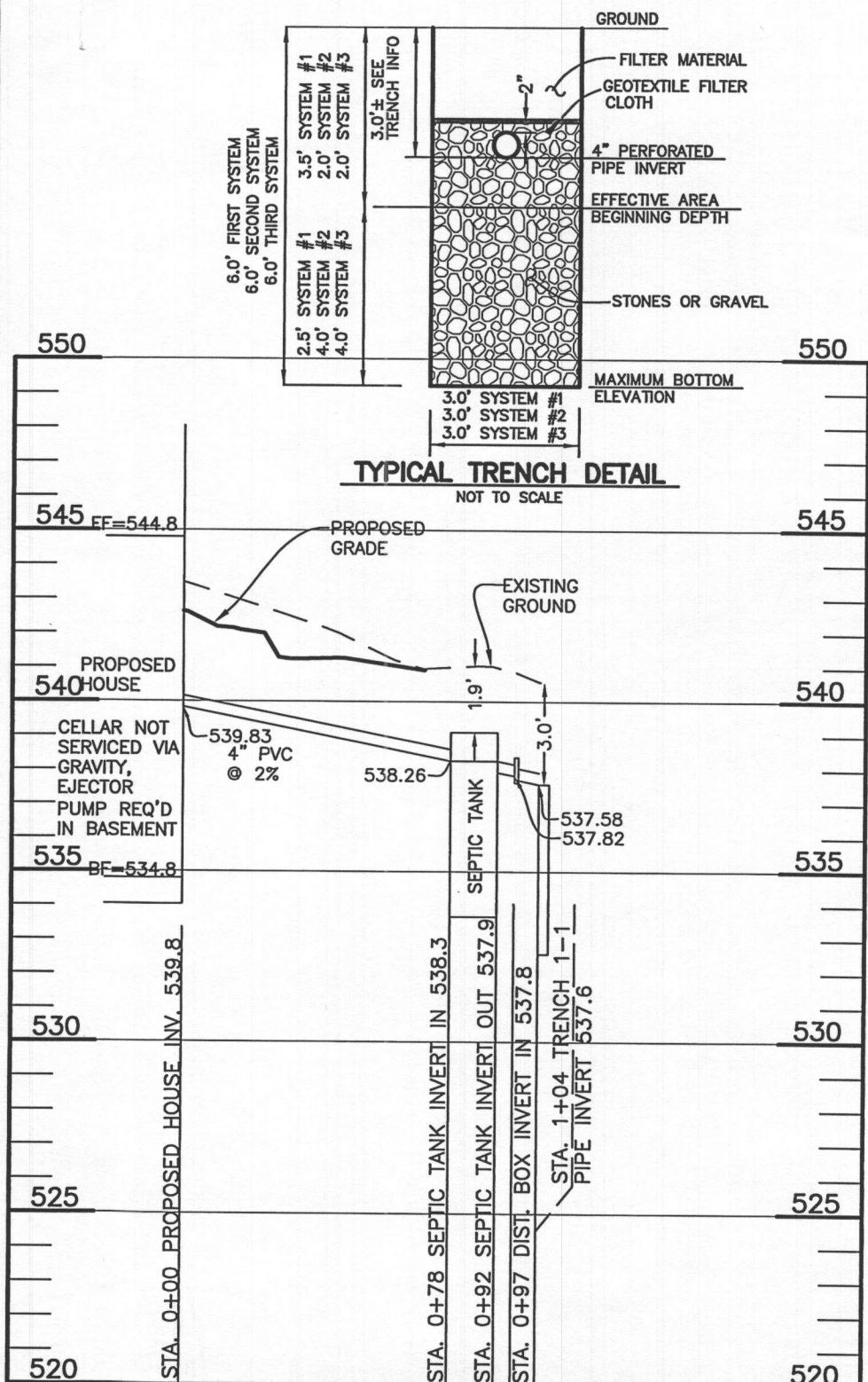
**PLAN VIEW**  
1" = 50'

<b>BUILDER:</b> NV HOMES, INC. 9720 PATUXENT WOODS DRIVE SUITE 100 COLUMBIA, MD 21046 410-379-5956	<b>OWNER:</b> HIGHLAND DEVELOPMENT CORP P.O. BOX 228 CLARKSVILLE, MARYLAND 21029 410-365-0414
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**BENCHMARK**  
ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CIVLENGINEERING.COM

<b>PROJECT:</b> BRIGHTON MILL II LOT 8	
<b>LOCATION:</b> TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13618 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600589	
<b>TITLE:</b> ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN	
<b>HOUSE TYPE:</b> STRATFORD HALL - ELEVATION A	
<b>DATE:</b> OCTOBER, 2018	<b>PROJECT NO.</b> 2627
<b>SCALE:</b> AS SHOWN	<b>DRAWING</b> 1 OF 2

**LOT 8**



**TYPICAL TRENCH DETAIL**  
NOT TO SCALE

**CL SEWER LOT 8**  
SCALE: 1"=50' HORIZ., 1"=5' VERT.

**SEPTIC INVERT CHART - LOT 8**

INV @ HOUSE	539.80
GROUND @ HOUSE	542.60
INV IN TANK	538.26
INV OUT TANK	537.93
TOP OF TANK	539.09
GROUND OVER TANK	540.99
INV IN DIST BOX	537.80
INV OUT DIST BOX	537.70
GROUND AT DIST BOX	540.80

**Health Department Spec Sheet information - LOT 8**

System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	3.5	6.0
1st Replacement	1.2	2.0	6.0
2nd Replacement	1.2	2.0	6.0

**INITIAL SYSTEM - LOT 8**

Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	6.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.56	
Trench width	3	ft
Effective Area Depth	2.5	ft
Trench Spacing	10	ft
Linear Length of trench Required	116	lf

**1st REPLACEMENT SYSTEM**

Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	87	lf

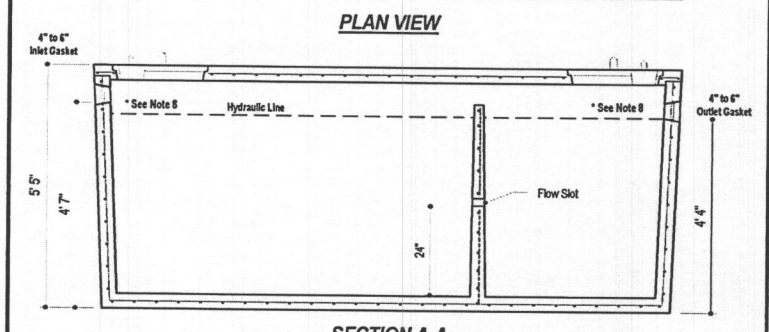
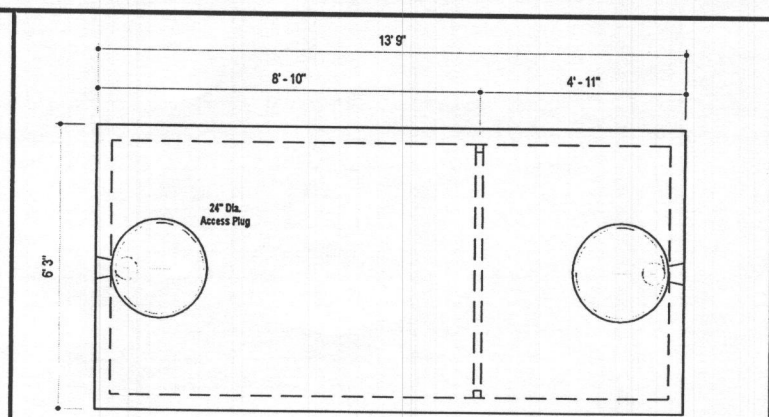
**2nd REPLACEMENT SYSTEM**

Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	2.0	ft
Bottom Max Depth	6.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.42	
Trench width	3	ft
Effective Area Depth	4	ft
Trench Spacing	11	ft
Linear Length of trench Required	87	lf

**TRENCH DATA - LOT 8**

INITIAL SYSTEM		FIRST REPLACEMENT		SECOND REPLACEMENT	
TRENCH 1-1	LENGTH 57.9 ft	TRENCH 2-1	LENGTH 43.5 ft	TRENCH 3-1	LENGTH 43.5 ft
	GROUND ELEVATION 540.6		GROUND ELEVATION 538.6		GROUND ELEVATION 536.2
	INVERT ELEVATION 537.6		INVERT ELEVATION 536.6		INVERT ELEVATION 534.2
	MAX BOTTOM ELEVATION 534.6		MAX BOTTOM ELEVATION 532.6		MAX BOTTOM ELEVATION 530.2
TRENCH 1-2	LENGTH 57.9 ft	TRENCH 2-2	LENGTH 43.5 ft	TRENCH 3-2	LENGTH 43.5 ft
	GROUND ELEVATION 539.7		GROUND ELEVATION 537.5		GROUND ELEVATION 534.7
	INVERT ELEVATION 536.7		INVERT ELEVATION 535.5		INVERT ELEVATION 532.7
	MAX BOTTOM ELEVATION 533.7		MAX BOTTOM ELEVATION 531.5		MAX BOTTOM ELEVATION 528.7

*2000-gal Septic Tank and gravity drain field for 5-bedroom residence*  
*Builder Signature* *11/19/2018* *Date*



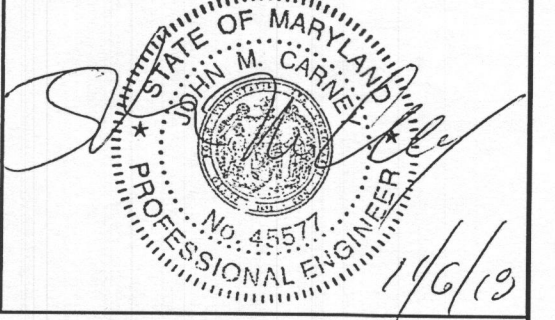
- DESIGN DATA & GENERAL NOTES**
- Concrete strength  $f'c=4,000$  p.s.i. @ 28 days. Density = 150 pcf.
  - Cement-Portland Type III per ASTM C 150-02.
  - Admixtures & plasticizers per ASTM C 260-00 & C 494-02.
  - Reinforcing per ASTM A 615. Min. 1-1/2" cover.
  - Top slab sealed with butyl rope mastic.
  - 4" wall, 4" base, & 6" top thickness.
  - Max 2" of cover.
  - Depending on use of tank, Inlet & Outlet baffle may be required by code.

**MBI**  
Mayer Bros., Inc.  
6264 Race Road  
Ellicott City, Maryland 21075  
Tel. 410.796.1434  
Fax. 410.796.1438  
www.mayerbrosprecast.com

**2,000 GALLON SEPTIC TANK**  
2-Compartment  
Stock Item [Approx. 19,900 lbs]  
Dwg. No. 2000-2C No Scale Aug 11, 2008

**THIS PLAN IS FOR SEPTIC DESIGN ONLY**

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. 45577, Expiration Date: 06-08-2020.



SEE MANUFACTURERS SPECIFICATIONS FOR DETAILS. WWW.MAYERPRECAST.COM EQUIVALENT FROM OTHER MANUFACTURERS CAN BE SUBSTITUTED.

SIGNATURE AND SEAL ARE FOR SEPTIC PROFILE AND CALCULATIONS ONLY, TANK AND DETAILS WERE NOT DESIGNED OR REVIEWED BY THE ENGINEER:

**BENCHMARK ENGINEERING, INC.**  
8480 BALTIMORE NATIONAL PIKE SUITE 315  
ELLCOTT CITY, MARYLAND 21043  
(P) 410-465-6105 (F) 410-465-6644  
WWW.BEI-CVLENGINEERING.COM

PROJECT: **BRIGHTON MILL II LOT 8**

LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO  
13618 CURTIS VISTA WAY  
CLARKSVILLE, MD 21029  
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #600589

TITLE: **ONSITE SEWAGE DISPOSAL SYSTEM DESIGN PLAN**

HOUSE TYPE: **STRATFORD HALL - ELEVATION A**

DATE: **OCTOBER, 2018** PROJECT NO. **2627**

SCALE: **AS SHOWN** DRAWING **2** OF **2**