



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: 12/13/18

ONSITE SEWAGE DISPOSAL SYSTEM

P 564095-A

APPROVAL DATE: 1/17/19 SEC

PERMIT: CONSTRUCTION

A _____

PROPERTY ADDRESS: 13603 Curtis Vista Way

SUBDIVISION: Brighton Mill II

LOT: 1

TAX ID:

05-600582

CONTRACTOR: South Carroll Backhoe

EMAIL: scbackhoe@comcast.net

CONTRACTOR ADDRESS: 4410 Salem Bottom Road, Westminster, MD 21157

PHONE: 410-596-3618

PROPERTY OWNER: Highland Development Corporation

EMAIL: _____

OWNER ADDRESS: P.O. Box 228, Clarksville, MD 21029

PHONE: _____

SEPTIC TANK SIZE (GALLONS): 2000

TANK MANUFACTURER:

Mayer Bros

PUMP MODEL: _____

PUMP SIZE _____

PUMP TANK CAPACITY: _____

DISTRIBUTION SYSTEM:



GRAVITY



PRESSURE DOSED

BEDROOMS: 5

APPLICATION RATE: 1.2

TRENCHES:	LINEAR FEET REQUIRED: <u>104</u>	INLET DEPTH: <u>3.5</u>
	TRENCH WIDTH: <u>3</u>	MAXIMUM BOTTOM DEPTH: <u>8</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>10</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.55</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: Dana Bernard

ISSUE DATE: 12/13/18

EXPIRATION DATE: 12/13/19

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.

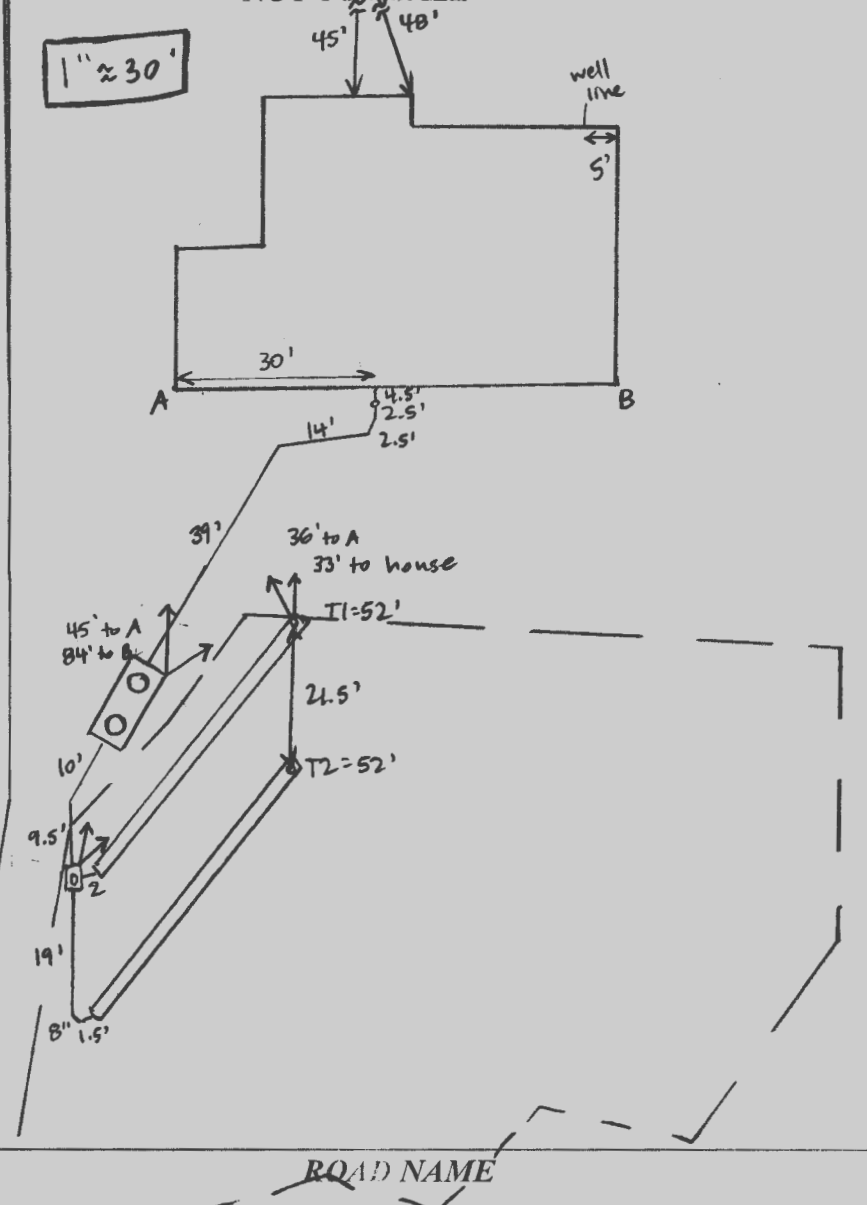
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

HO-17-0147

NOT TO SCALE

1" ≈ 30'



TRENCH DRAINFIELD DATA		
WIDTH	INLET	BOTTOM
3'	3.5'	8
NUMBER OF TRENCHES		2
TOTAL LENGTH		104'
ABSORPTION AREA		312' + SIDEWALL
DISTRIBUTION BOX LEVEL		YES
DISTRIBUTION BOX BAFFLE		YES
DISTRIBUTION BOX PORT		YES

SEPTIC TANK DATA	
SEPTIC TANK LEVEL	YES
MANUFACTURER	BABYLON
CAPACITY	2000 GAL
LOCATION	TOP
TRENCH DEPTH	2.5 - 3'
TEST	YES
PERMIT	NO
INSTALL LOC	FRONT + REAR
PORT LOC	NONE
WRIGHT TEST	NO
TEST	YES
INSTALL ID	11-19-18
SECONDARY TANK LEVEL	
MANUFACTURER	
CAPACITY	
LOCATION	
TRENCH DEPTH	
TEST	
PERMIT	
INSTALL LOC	
PORT LOC	
WRIGHT TEST	
TEST	
INSTALL ID	

D-box:
78' to A
111' to B

ROAD NAME

PRE-CONSTRUCTION:

1/3/19 Met S. Carroll on site for layout. SDA corners + tank staked. Shot contour + laid out 2 = 52' trenches. OK for D-box to be further from house to minimize kinks in line. (SC)

INSTALLATION: 1/4/19 On site while tank was set - no obvious cracks on sides or bottom of tank. (SC)

1/7/19 T1 complete + left open for inspection - 3' wide and 3' to stone. D-box installed + connected to tank + T1. Levelled speed levelers in D-box. (SC) 1/8/19 T2 complete + left open for inspection, 3' wide and 3-3.5' to stone. Sewer line installed from house to tank - need house connection. (SC) 1/17/19 House connection made. (SC)

FINAL INSPECTOR Sarah Collins DATE OF APPROVAL 1/17/19

LEGEND

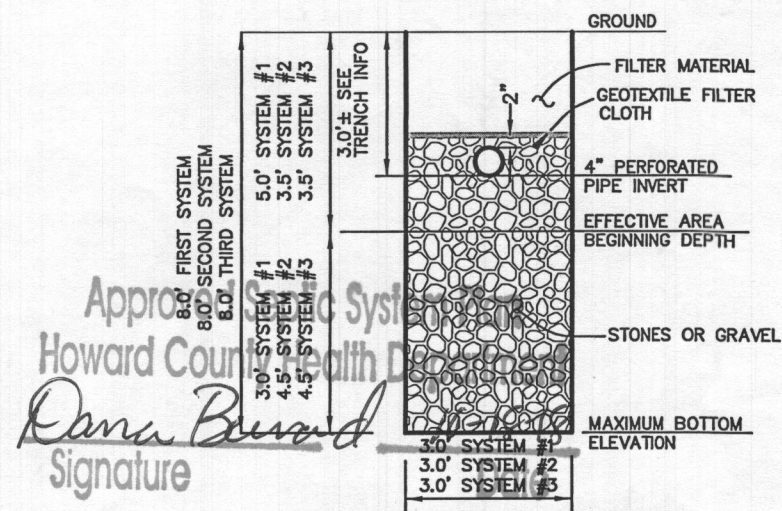
- SOILS CLASSIFICATION *GgC*
- SOILS DELINEATION
- PROPOSED CONTOURS
- EXISTING CONTOURS
- LIMIT OF WETLANDS
- EXISTING WOODS LINE
- PROPOSED WOODS LINE
- EXISTING STRUCTURE
- EXISTING WELL
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA

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.
4. 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.
5. ALL DRAINAGE AND STORMWATER MANAGEMENT FEATURES USED ON THIS SITE MUST COMPLY WITH THE APPROVED ROAD CONSTRUCTION PLANS EXCEPT AS WAIVED.
6. THE EXISTING WELL SHOWN ON THIS PLAN, HO-17-0147, HAS BEEN FIELD LOCATED BY BENCHMARK ENGINEERING, INC., AND IS ACCURATELY SHOWN.
7. THERE ARE NO EXISTING WELLS OR SEPTIC SYSTEMS WITHIN 100' OF THIS PROJECT'S BOUNDARY EXCEPT AS NOTED.
8. ANY CHANGES TO A PRIVATE SEWAGE DISPOSAL AREA OR WELL BOX SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
9. STORMWATER MANAGEMENT FOR THIS LOT WAS DESIGNED AND PROVIDED BY THE EXISTING BIO-RETENTION FACILITY PER F-17-054.
10. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
11. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLAN F-17-054.



LOT 1

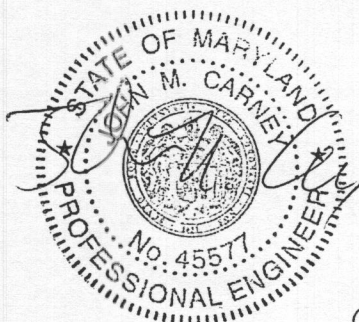


Approved for 5BR only

PROJECT:		BRIGHTON MILL II LOT 1	
LOCATION:		TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO 13603 CURTIS VISTA WAY CLARKSVILLE, MD 21029 FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600582	
TITLE:		ONSITE SEPTIC DESIGN SYSTEM PLAN	
HOUSE TYPE:		MARYMOUNT - ELEVATION A	
DATE:	AUGUST, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	1 OF 2

PLAN VIEW
1" = 50'

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.

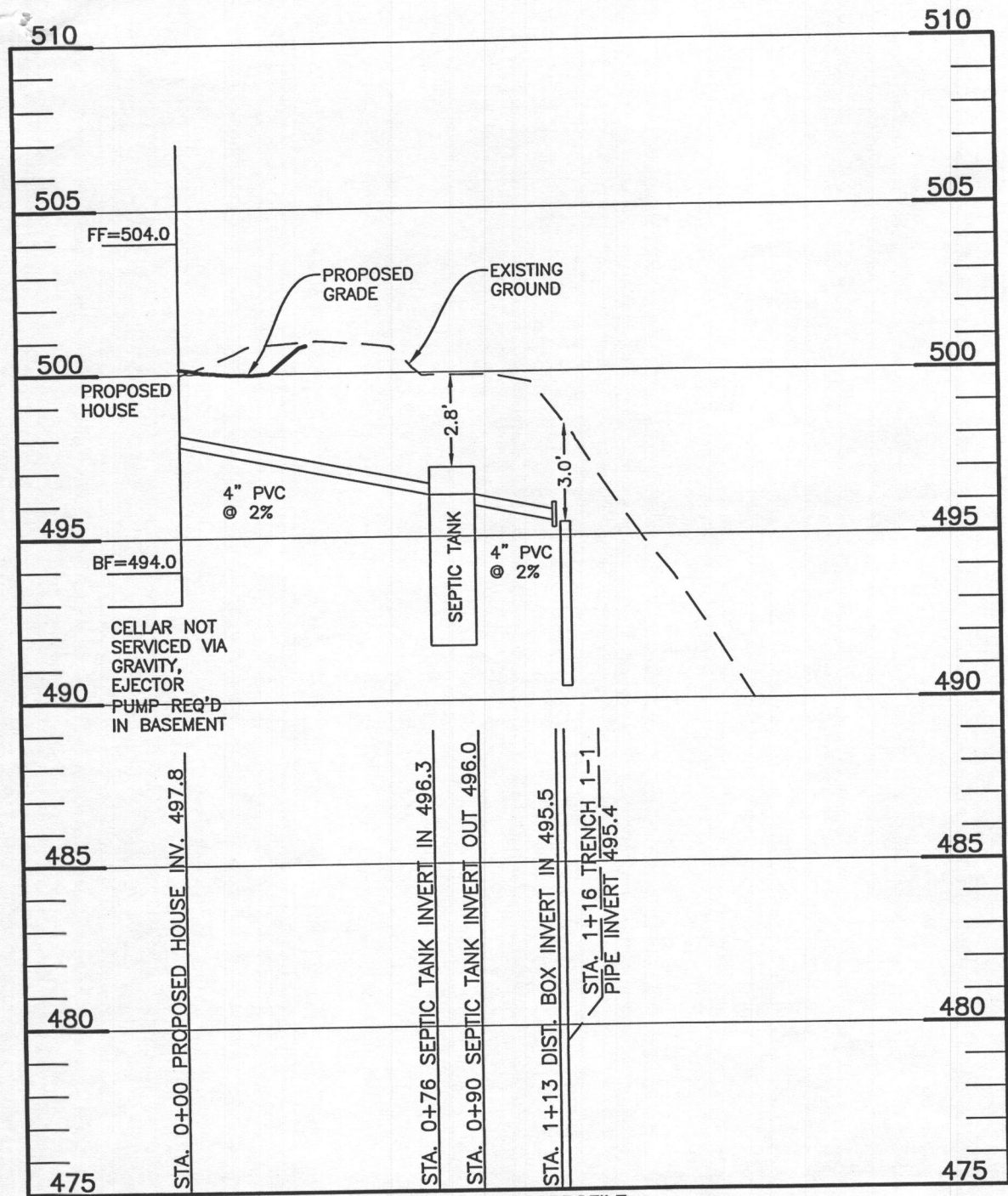


BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DRIVE
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414

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-CMLENGINEERING.COM

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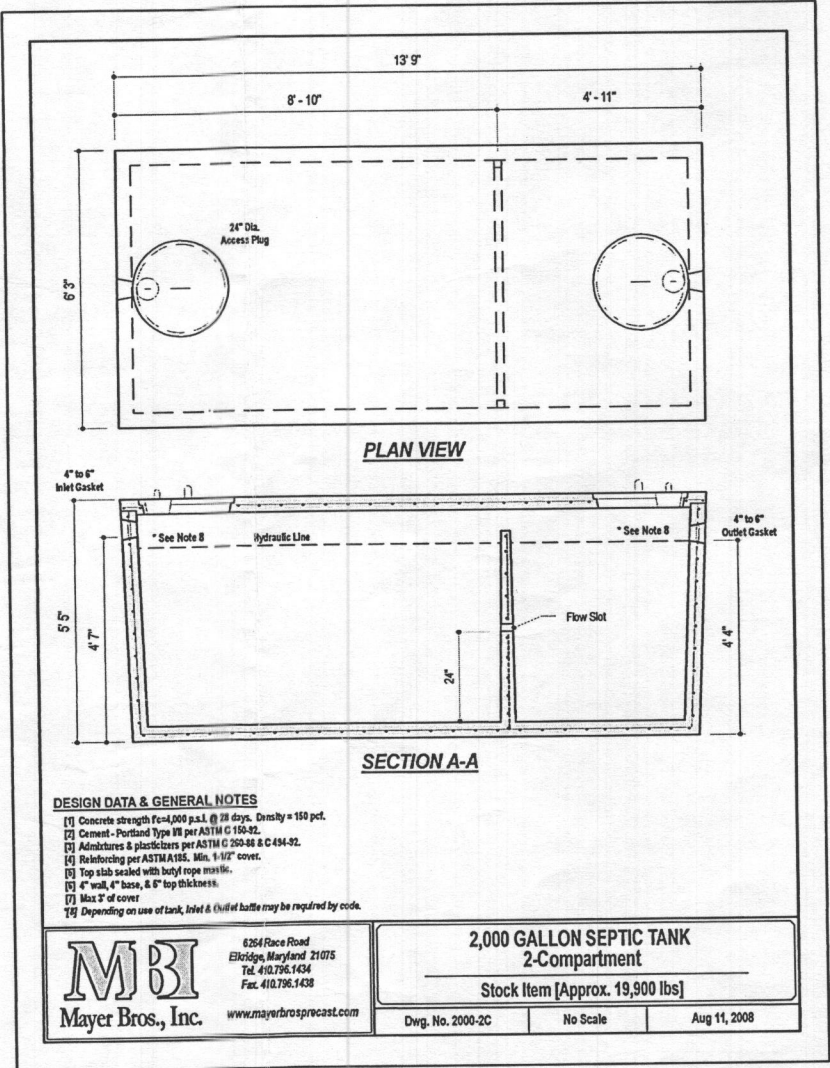


LOT 1 OSDS PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

SEPTIC INVERT CHART - LOT 1	
INV @ HOUSE	497.8
GROUND @ HOUSE	500.2
INV IN TANK	496.3
INV OUT TANK	496.0
TOP OF TANK	497.1
GROUND OVER TANK	499.9
INV IN DIST BOX	495.5
INV OUT DIST BOX	495.4
GROUND AT DIST BOX	498.4

Health Department Spec Sheet information			
System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	5.0	8.0
1st Replacement	1.2	3.5	8.0
2nd Replacement	0.8	3.5	8.0

INITIAL SYSTEM - LOT 1		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	5.0	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Linear Length of trench Required	104	lf
1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.38	
Trench width	3	ft
Effective Area Depth	4.5	ft
Trench Spacing	12	ft
Linear Length of trench Required	80	lf
2nd REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall Reduction Credit	0.38	
Trench width	3	ft
Effective Area Depth	4.5	ft
Trench Spacing	12	ft
Linear Length of trench Required	120	lf



DESIGN DATA & GENERAL NOTES
 [1] Concrete strength Fc=4,000 p.s.i. @ 28 days. Density = 150 pcf.
 [2] Cement - Portland Type III per ASTM C 150-92.
 [3] Admixtures & plasticizers per ASTM C 260-98 & C 494-92.
 [4] Reinforcing per ASTM A633, Min. 1/8" cover.
 [5] Top slab sealed with butyl rope mastic.
 [6] 4" wall, 4" base, & 6" top thickness.
 [7] Max 3" of cover
 [8] Depending on use of tank, inlet & outlet baffles may be required by code.

MBI
Mayer Bros., Inc.
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

TRENCH DATA - LOT 1					
INITIAL SYSTEM		FIRST REPLACEMENT		SECOND REPLACEMENT	
TRENCH 1-1		TRENCH 2		TRENCH 3-1	
LENGTH	52.1 ft	LENGTH	80.1 ft	LENGTH	60.1 ft
GROUND ELEVATION	498.4	GROUND ELEVATION	494.9	GROUND ELEVATION	492.2
INVERT ELEVATION	495.4	INVERT ELEVATION	491.9	INVERT ELEVATION	489.2
MAX BOTTOM ELEVATION	490.4	MAX BOTTOM ELEVATION	486.9	MAX BOTTOM ELEVATION	484.2
TRENCH 1-2		TRENCH 3-2			
LENGTH	52.1 ft	LENGTH	60.1 ft		
GROUND ELEVATION	496.7	GROUND ELEVATION	490.0		
INVERT ELEVATION	493.7	INVERT ELEVATION	486.5		
MAX BOTTOM ELEVATION	488.7	MAX BOTTOM ELEVATION	482.0		

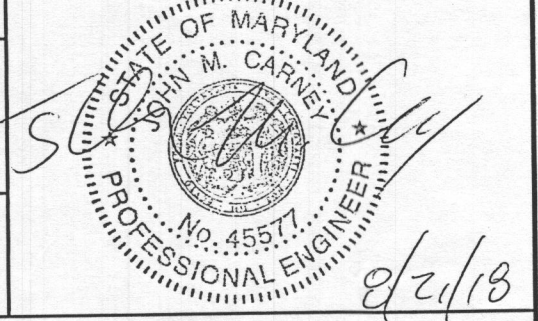
BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DR.
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414

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:

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.



BENCHMARK ENGINEERING, INC.
8480 BALTIMORE NATIONAL PIKE & SUITE 315
CLARKSVILLE, MD 21043
(P) 410-465-6105 (F) 410-465-6644
WWW.BEI-CVLENGINEERING.COM

PROJECT: BRIGHTON MILL II LOT 1

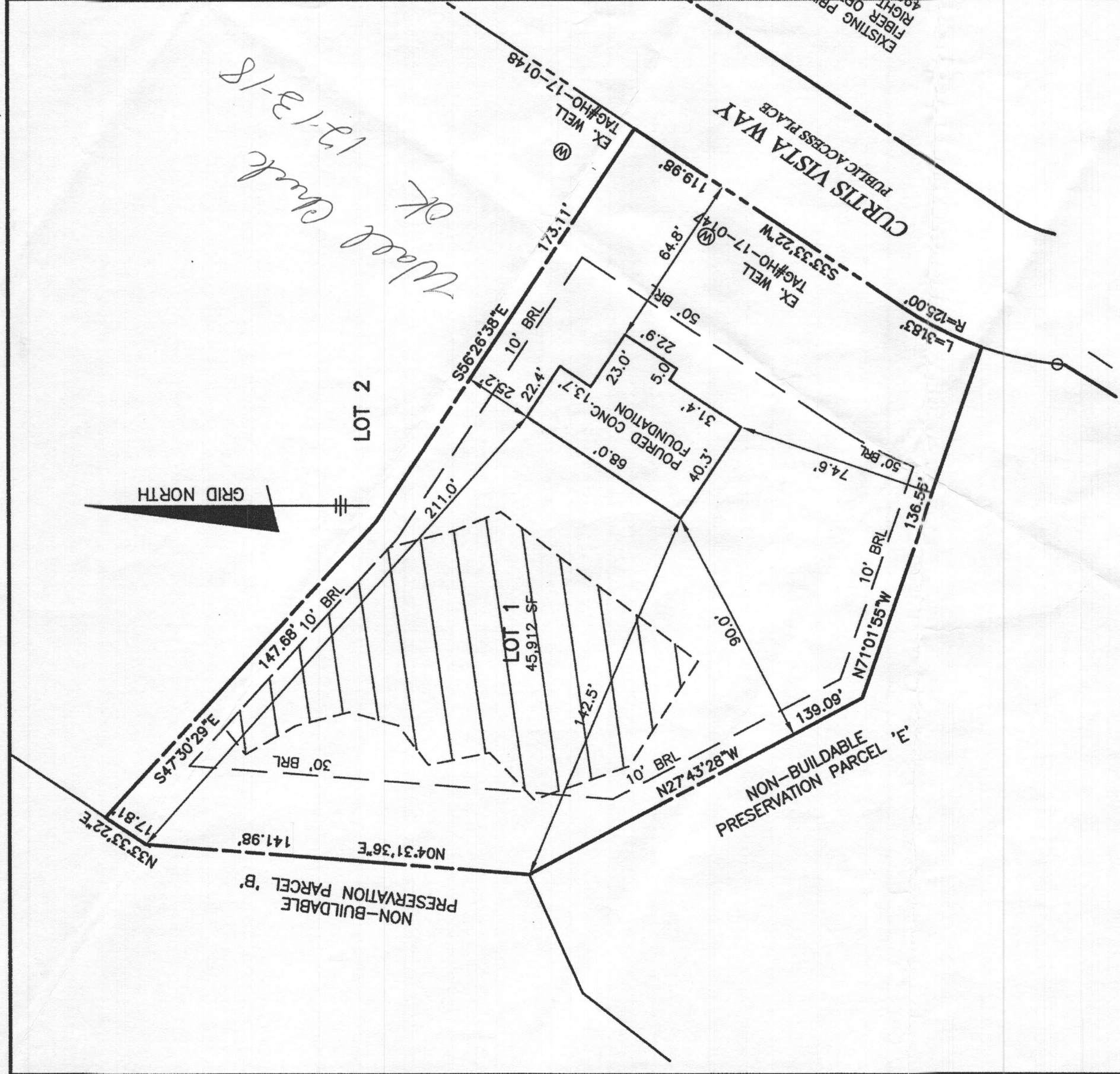
LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO
13603 CURTIS VISTA WAY
CLARKSVILLE, MD 21029
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600582

TITLE: ONSITE SEPTIC DESIGN SYSTEM PLAN

HOUSE TYPE: MARYMOUNT - ELEVATION A

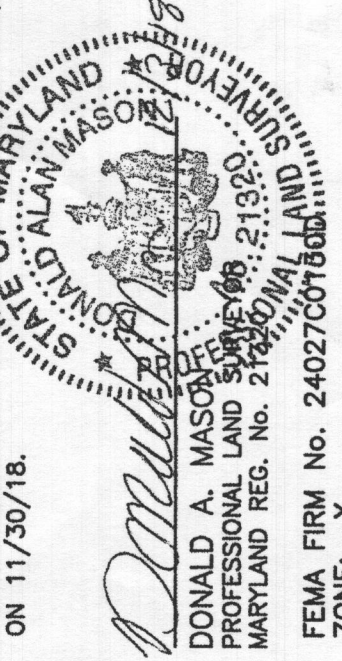
DATE:	AUGUST, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	2 OF 2

THIS PLAN IS FOR SEPTIC DESIGN ONLY



TOP OF FOUNDATION WALL = 503.1
 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 HEREON ARE CORRECT; THAT THEY ARE BASED ON A FIELD RUN SURVEY PERFORMED BY BENCHMARK ENGINEERING, INC. ON 11/30/18.



BENCHMARK ENGINEERING, INC.
 ENGINEERS & LAND SURVEYORS & PLANNERS
 8480 BALTIMORE NATIONAL PIKE SUITE 315
 ELLICOTT CITY, MARYLAND 21043
 (P) 410-465-6105 A (F) 410-465-6644
 WWW.BEI-CVLENGINEERING.COM
 J:\2627 Brighton Mill - Sec 2\10160588801.dwg, 12/13/2018 8:34:39 AM, Kyoceera, CS 3050c1.kx

WALL CHECK
BRIGHTON MILL II
PLAT No. 24470
LOT No. 1

13603 CURTIS VISTA WAY
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 SCALE: 1" = 50' DATE: 12/3/2018

NOT 1:50

LEGEND

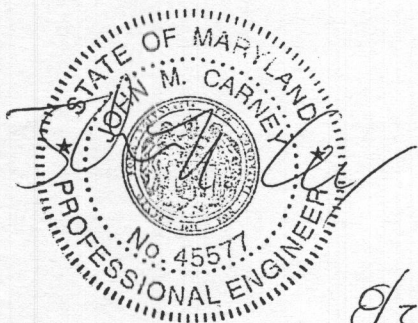
- SOILS CLASSIFICATION *GgC*
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- EXISTING WOODS LINE
- PROPOSED WOODS LINE
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- EXISTING WELL
- EXISTING WELL BOX
- EXISTING SEWAGE DISPOSAL AREA



PLAN VIEW

1" = 50'

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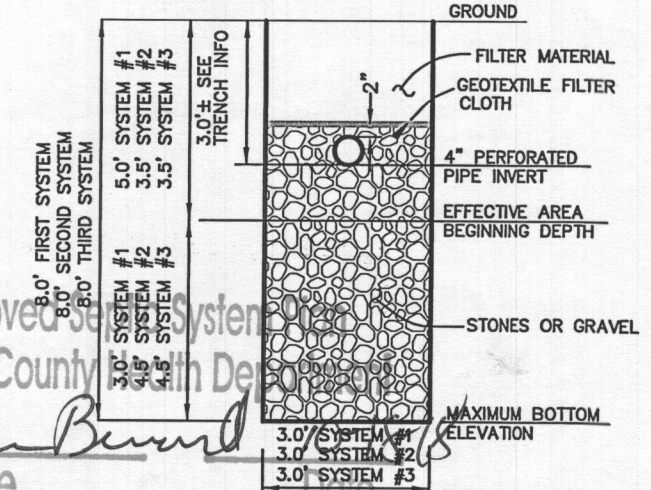
John M. Carney



ONSITE SEWAGE DISPOSAL PLAN NOTES:

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10. THE SEPTIC TANK WILL HAVE A 2000 GALLON 2 COMPARTMENT TANK.
11. FOR DEVELOPMENT LANDSCAPING SEE ROAD CONSTRUCTION PLAN F-17-054.

LOT 1



Approved by
Howard County Health Dept.
Dave Beard
Signature

5BR only

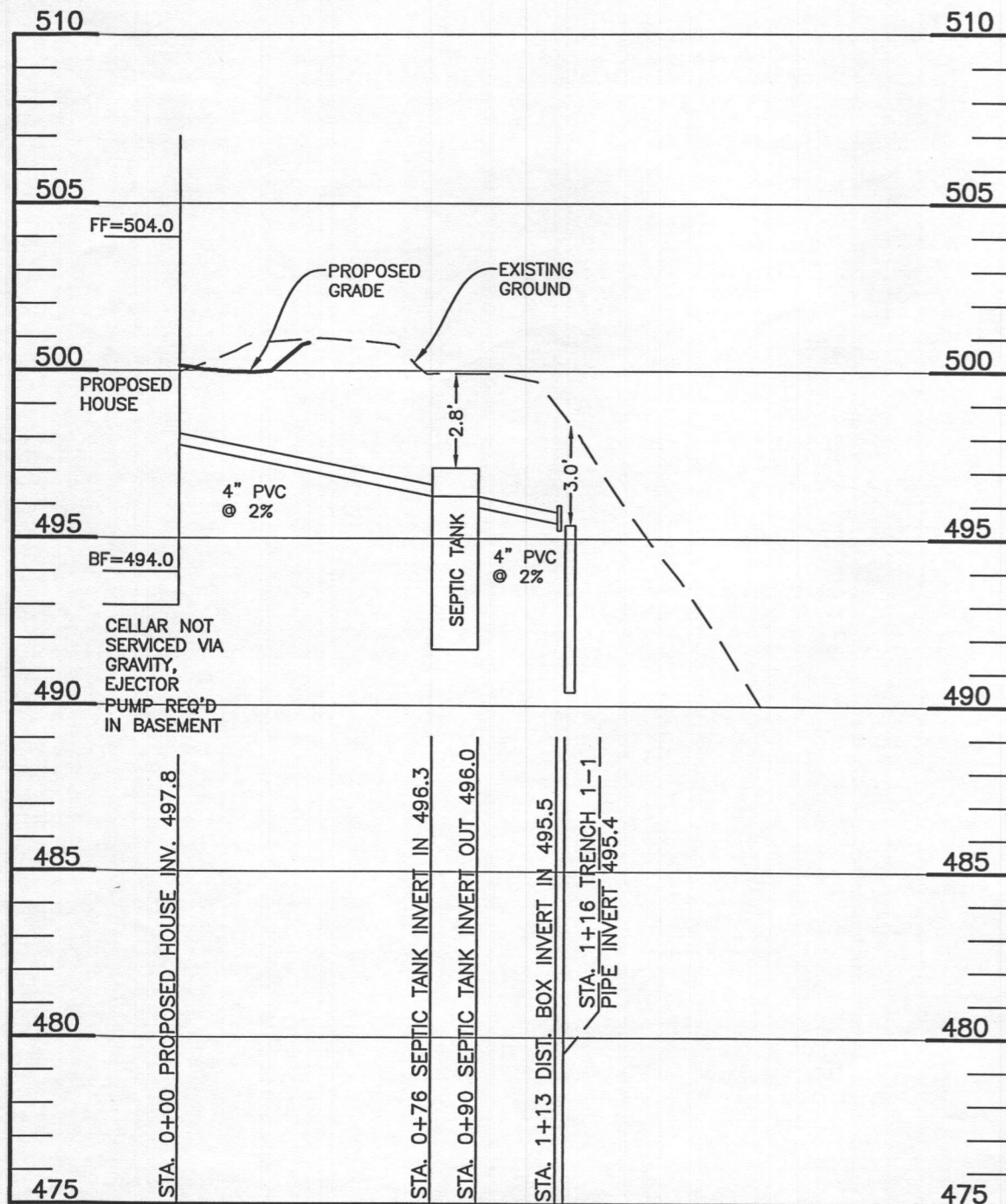
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HOUSE TYPE:	MARYMOUNT - ELEVATION A		
DATE:	AUGUST, 2018	PROJECT NO.	2627
SCALE:	AS SHOWN	DRAWING	1 OF 2

BUILDER:
NV HOMES, INC.
9720 PATUXENT WOODS DRIVE
SUITE 100
COLUMBIA, MD 21046
410-379-5956

OWNER:
HIGHLAND DEVELOPMENT CORP
P.O. BOX 228
CLARKSVILLE, MARYLAND 21029
410-365-0414

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(P) 410-465-6105 (F) 410-465-6644
WWW.BEI-CIVILENGINEERING.COM



LOT 1 OSDS PROFILE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

TRENCH DATA - LOT 1					
INITIAL SYSTEM		FIRST REPLACEMENT		SECOND REPLACEMENT	
TRENCH 1-1		TRENCH 2		TRENCH 3-1	
LENGTH	52.1 ft	LENGTH	80.1 ft	LENGTH	60.1 ft
GROUND ELEVATION	498.4	GROUND ELEVATION	494.9	GROUND ELEVATION	492.2
INVERT ELEVATION	495.4	INVERT ELEVATION	491.9	INVERT ELEVATION	489.2
MAX BOTTOM ELEVATION	490.4	MAX BOTTOM ELEVATION	486.9	MAX BOTTOM ELEVATION	484.2
TRENCH 1-2		TRENCH 3-2			
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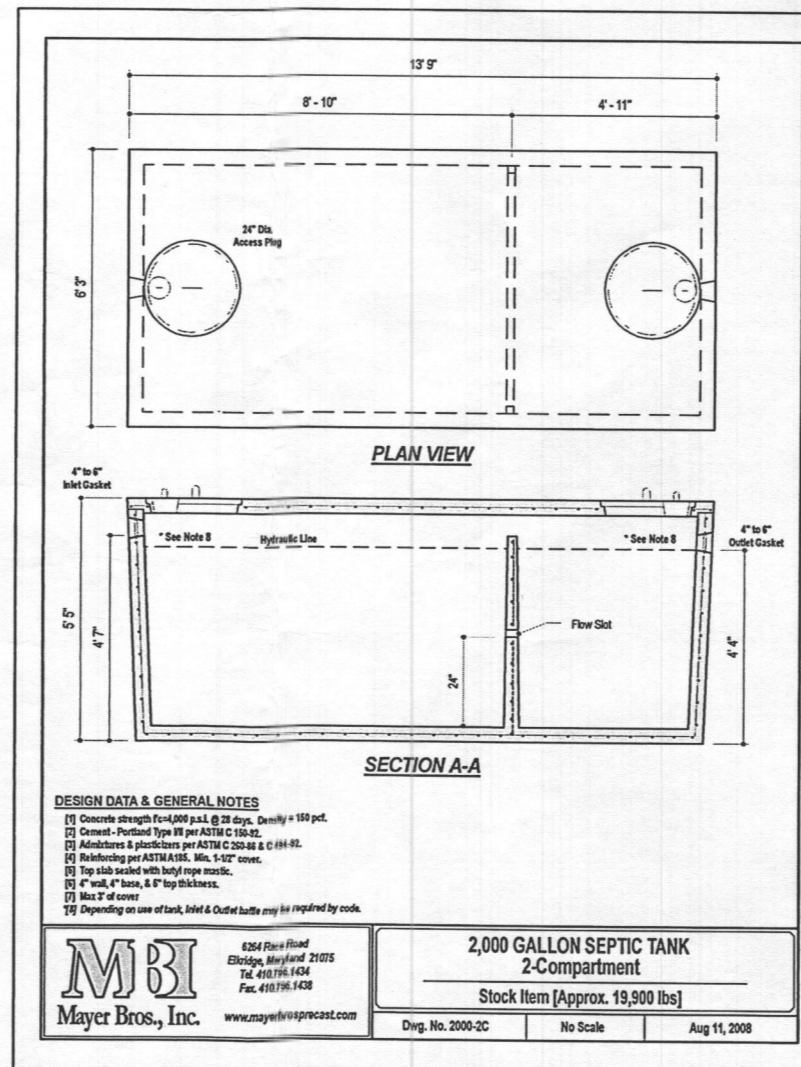
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INV IN TANK	496.3
INV OUT TANK	496.0
TOP OF TANK	497.1
GROUND OVER TANK	499.9
INV IN DIST BOX	495.5
INV OUT DIST BOX	495.4
GROUND AT DIST BOX	498.4

Health Department Spec Sheet information			
System	Application Rate	Effective Depth	Bottom Depth
Initial	1.2	5.0	8.0
1st Replacement	1.2	3.5	8.0
2nd Replacement	0.8	3.5	8.0

INITIAL SYSTEM - LOT 1		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	5.0	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.50	
Trench width	3	ft
Effective Area Depth	3	ft
Trench Spacing	10	ft
Linear Length of trench Required	104	lf

1st REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	1.2	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	625	sf
Sidewall Reduction Credit	0.38	
Trench width	3	ft
Effective Area Depth	4.5	ft
Trench Spacing	12	ft
Linear Length of trench Required	80	lf

2nd REPLACEMENT SYSTEM		
Number of Bedrooms	5	
Application Rate	0.8	gpd/sf
Effective Area Beginning Depth	3.5	ft
Bottom Max Depth	8.0	ft
Design Flow	750	gpd
Drainage Field square footage	938	sf
Sidewall Reduction Credit	0.38	
Trench width	3	ft
Effective Area Depth	4.5	ft
Trench Spacing	12	ft
Linear Length of trench Required	120	lf



DESIGN DATA & GENERAL NOTES
 [1] Concrete strength $f_c=4,000$ p.s.i. @ 28 days. Density = 150 pcf.
 [2] Cement - Portland Type III per ASTM C 150-92.
 [3] Admixtures & plasticizers per ASTM C 260-88 & C 494-92.
 [4] Reinforcing per ASTM A 633, Min. 5-1/2" cover.
 [5] Top slab sealed with butyl rope mastic.
 [6] 4" wall, 4" base, & 6" top thickness.
 [7] Max 3" of cover
 [8] Depending on use of tank, Inlet & Outlet battle may be required by code.

MBI
Mayer Bros., Inc.
www.mayerbrosprecast.com

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

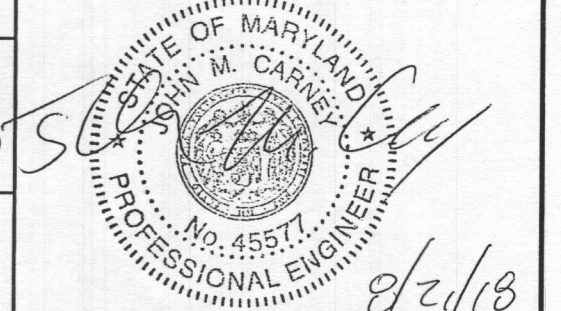
BUILDER:
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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 45577, Expiration Date: 06-08-2020.



BENCHMARK ENGINEERING, INC.
ENGINEERS LAND SURVEYORS PLANNERS
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ELLCOTT CITY, MARYLAND 21043
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WWW.BEI-CMLENGINEERING.COM

PROJECT: BRIGHTON MILL II
LOT 1

LOCATION: TAX MAP: 34, GRID: 2, PARCEL: 16 ZONED: RR-DEO
13603 CURTIS VISTA WAY
CLARKSVILLE, MD 21029
FIFTH ELECTION DISTRICT, HOWARD COUNTY, MD, TAX ID #05-600582

TITLE: ONSITE SEPTIC DESIGN SYSTEM PLAN

HOUSE TYPE: MARYMOUNT - ELEVATION A

DATE: AUGUST, 2018 **PROJECT NO.** 2627
SCALE: AS SHOWN **DRAWING** 2 OF 2

THIS PLAN IS FOR SEPTIC DESIGN ONLY